

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|-----------------|------------------|---------|------------------|
| L1 | 27073 | oligosaccharide\$1 or lacto-n-neotetraose or LNnT or polylactosamine | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:27 |
| L2 | 5231 | 1 near8 (synthes\$8 or produc\$8) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:27 |
| L3 | 942 | 2 same (coli or bacter\$ or microb\$10 or microorganism\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:28 |
| (L4) | 51 | 3 same vivo | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:28 |
| L5 | 3641 | 1 near3 (synthes\$8 or produc\$8) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:37 |
| L6 | 230 | 5 near5 (coli or bacter\$ or microb\$10 or microorganism\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:37 |
| (L7) | 62 | 6 and (glycosyltransferase\$1 or glycosyl transferase\$1) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:38 |
| L8 | 4295 | lactose permease or lacY or lac adj y | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:51 |
| (L9) | 31 | 8 near5 (overexpress\$ or recombinant\$ or express\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/01/02 13:52 |

7/7/00

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FILE 'HOME' ENTERED AT 14:46:28 ON 02 JAN 2008

=> fil .bec

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 14:46:43 ON 02 JAN 2008
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s oligosaccharide# or lacto n neotetraose or LNnT or polylactosamine
FILE 'MEDLINE'

| | |
|--------|--|
| 28000 | OLIGOSACCHARIDE# |
| 886 | LACTO |
| 881674 | N |
| 124 | NEOTETRAOSE |
| 120 | LACTO N NEOTETRAOSE (LACTO (W) N (W) NEOTETRAOSE) |
| 20 | LNNT |
| 197 | POLYLACTOSAMINE |
| L1 | 28120 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE |

FILE 'SCISEARCH'

| | |
|---------|--|
| 31544 | OLIGOSACCHARIDE# |
| 763 | LACTO |
| 1434237 | N |
| 128 | NEOTETRAOSE |
| 121 | LACTO N NEOTETRAOSE (LACTO (W) N (W) NEOTETRAOSE) |
| 22 | LNNT |
| 204 | POLYLACTOSAMINE |
| L2 | 31697 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE |

FILE 'LIFESCI'

| | |
|--------|---|
| 7227 | OLIGOSACCHARIDE# |
| 218 | "LACTO" |
| 267792 | "N" |
| 54 | "NEOTETRAOSE" |
| 54 | LACTO N NEOTETRAOSE ("LACTO" (W) "N" (W) "NEOTETRAOSE") |
| 7 | LNNT |
| 45 | POLYLACTOSAMINE |
| L3 | 7285 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE |

FILE 'BIOTECHDS'

| | |
|-------|---|
| 3770 | OLIGOSACCHARIDE# |
| 69 | LACTO |
| 53640 | N |
| 14 | NEOTETRAOSE |
| 13 | LACTO N NEOTETRAOSE (LACTO (W) N (W) NEOTETRAOSE) |
| 5 | LNNT |
| 7 | POLYLACTOSAMINE |
| L4 | 3780 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE |

FILE 'BIOSIS'

27041 OLIGOSACCHARIDE#
3461 LACTO
1143462 N
123 NEOTETRAOSE
120 LACTO N NEOTETRAOSE
(LACTO (W) N (W) NEOTETRAOSE)
21 LNNT
209 POLYLACTOSAMINE
L5 27241 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'EMBASE'

20424 OLIGOSACCHARIDE#
788 "LACTO"
867093 "N"
119 "NEOTETRAOSE"
112 LACTO N NEOTETRAOSE
("LACTO" (W) "N" (W) "NEOTETRAOSE")
18 LNNT
172 POLYLACTOSAMINE
L6 20574 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'HCAPLUS'

57154 OLIGOSACCHARIDE#
1516 LACTO
3122229 N
212 NEOTETRAOSE
206 LACTO N NEOTETRAOSE
(LACTO (W) N (W) NEOTETRAOSE)
43 LNNT
230 POLYLACTOSAMINE
L7 57342 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'NTIS'

173 OLIGOSACCHARIDE#
5 LACTO
71193 N
1 NEOTETRAOSE
1 LACTO N NEOTETRAOSE
(LACTO (W) N (W) NEOTETRAOSE)
0 LNNT
1 POLYLACTOSAMINE
L8 175 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'ESBIOBASE'

9707 OLIGOSACCHARIDE#
282 LACTO
399359 N
78 NEOTETRAOSE
75 LACTO N NEOTETRAOSE
(LACTO (W) N (W) NEOTETRAOSE)
15 LNNT
109 POLYLACTOSAMINE
L9 9814 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'BIOTECHNO'

9517 OLIGOSACCHARIDE#
275 LACTO
184936 N
53 NEOTETRAOSE
52 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)
8 LNNT
113 POLYLACTOSAMINE
L10 9603 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

FILE 'WPIDS'
8215 OLIGOSACCHARIDE#
536 LACTO
828130 N
26 NEOTETRAOSE
23 LACTO N NEOTETRAOSE
(LACTO (W) N (W) NEOTETRAOSE)
16 LNNT
22 POLYLACTOSAMINE
L11 8231 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

TOTAL FOR ALL FILES
L12 203862 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
NE

=> s l12(5a) (synthes? or produc?)
FILE 'MEDLINE'
561448 SYNTHESES?
1447591 PRODUC?
L13 2176 L1 (5A) (SYNTHESES? OR PRODUC?)

FILE 'SCISEARCH'
1015787 SYNTHESES?
2073859 PRODUC?
L14 3826 L2 (5A) (SYNTHESES? OR PRODUC?)

FILE 'LIFESCI'
158565 SYNTHESES?
584996 PRODUC?
L15 926 L3 (5A) (SYNTHESES? OR PRODUC?)

FILE 'BIOTECHDS'
37774 SYNTHESES?
244863 PRODUC?
L16 1337 L4 (5A) (SYNTHESES? OR PRODUC?)

FILE 'BIOSIS'
738529 SYNTHESES?
2132937 PRODUC?
L17 3404 L5 (5A) (SYNTHESES? OR PRODUC?)

FILE 'EMBASE'
676804 SYNTHESES?
1369397 PRODUC?
L18 2043 L6 (5A) (SYNTHESES? OR PRODUC?)

FILE 'HCAPLUS'
1682639 SYNTHESES?
4656509 PRODUC?
1052585 PRODN
5162078 PRODUC?
(PRODUC? OR PRODN)
L19 8292 L7 (5A) (SYNTHESES? OR PRODUC?)

FILE 'NTIS'
43799 SYNTHESES?
381531 PRODUC?
L20 24 L8 (5A) (SYNTHESES? OR PRODUC?)

FILE 'ESBIOBASE'
 228270 SYNTHESES?
 694919 PRODUC?
L21 1300 L9 (5A) (SYNTHESES? OR PRODUC?)

FILE 'BIOTECHNO'
 170699 SYNTHESES?
 394590 PRODUC?
L22 1016 L10 (5A) (SYNTHESES? OR PRODUC?)

FILE 'WPIDS'
 160054 SYNTHESES?
 2629547 PRODUC?
L23 1004 L11 (5A) (SYNTHESES? OR PRODUC?)

TOTAL FOR ALL FILES
L24 25348 L12 (5A) (SYNTHESES? OR PRODUC?)

=> s l24(5a) (coli or bacter? or microb? or microorganism?)

FILE 'MEDLINE'
 268340 COLI
 818706 BACTER?
 585388 MICROB?
 39265 MICROORGANISM?
L25 62 L13 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'SCISEARCH'
 255444 COLI
 424583 BACTER?
 162786 MICROB?
 52269 MICROORGANISM?
L26 90 L14 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'LIFESCI'
 108870 COLI
 221191 BACTER?
 64340 MICROB?
 44294 MICROORGANISM?
L27 43 L15 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOTECHDS'
 50436 COLI
 136410 BACTER?
 231411 MICROB?
 29040 MICROORGANISM?
L28 90 L16 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOSIS'
 321938 COLI
 1641044 BACTER?
 505107 MICROB?
 3216975 MICROORGANISM?
L29 94 L17 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'EMBASE'
 192981 COLI
 547561 BACTER?
 125446 MICROB?
 133095 MICROORGANISM?
L30 56 L18 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'HCAPLUS'
 293508 COLI
 653912 BACTER?

486789 MICROB?
170619 MICROORGANISM?
L31 238 L19(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'NTIS'
2942 COLI
19329 BACTER?
13166 MICROB?
9347 MICROORGANISM?
L32 1 L20(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'ESBIOBASE'
80945 COLI
238768 BACTER?
314827 MICROB?
47799 MICROORGANISM?
L33 54 L21(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOTECHNO'
94549 COLI
191870 BACTER?
38419 MICROB?
18193 MICROORGANISM?
L34 36 L22(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'WPIDS'
32163 COLI
129680 BACTER?
58598 MICROB?
57633 MICROORGANISM?
L35 65 L23(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

TOTAL FOR ALL FILES
L36 829 L24(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

=> s l36 not 2001-2008/py

FILE 'MEDLINE'
4221099 2001-2008/PY
(20010000-20089999/PY)
L37 37 L25 NOT 2001-2008/PY

FILE 'SCISEARCH'
7790095 2001-2008/PY
(20010000-20089999/PY)
L38 47 L26 NOT 2001-2008/PY

FILE 'LIFESCI'
895221 2001-2008/PY
L39 25 L27 NOT 2001-2008/PY

FILE 'BIOTECHDS'
174757 2001-2008/PY
L40 46 L28 NOT 2001-2008/PY

FILE 'BIOSIS'
3897957 2001-2008/PY
L41 50 L29 NOT 2001-2008/PY

FILE 'EMBASE'
3713811 2001-2008/PY
L42 35 L30 NOT 2001-2008/PY

FILE 'HCAPLUS'
8090843 2001-2008/PY
L43 116 L31 NOT 2001-2008/PY

FILE 'NTIS'
121734 2001-2008/PY
L44 1 L32 NOT 2001-2008/PY

FILE 'ESBIOBASE'
2196803 2001-2008/PY
L45 25 L33 NOT 2001-2008/PY

FILE 'BIOTECHNO'
368875 2001-2008/PY
L46 28 L34 NOT 2001-2008/PY

FILE 'WPIDS'
6465009 2001-2008/PY
L47 32 L35 NOT 2001-2008/PY

TOTAL FOR ALL FILES
L48 442 L36 NOT 2001-2008/PY

=> dup rem l48
PROCESSING COMPLETED FOR L48
L49 204 DUP REM L48 (238 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI A new chitosanase producing microbe, Burkholderia gladioli for
manufacturing chitosan oligosaccharide;
Production of chitosan oligosaccharide by Burkholderia gladioli sp.
CHB101
AN 2000-06955 BIOTECHDS
PI JP 2000041664 15 Feb 2000

L49 ANSWER 2 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Role of oligosaccharides in microbial glycoproteins and synthetic methods
of neoglycoproteins
SO Nippon Nogei Kagaku Kaishi (2000), 74(11), 1237-1246
CODEN: NNKKA; ISSN: 0002-1407
AU Takegawa, Kaoru
AN 2000:810811 HCAPLUS
DN 133:331223

L49 ANSWER 3 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Production of heterologous oligosaccharides by
recombinant bacteria (recombinant oligosaccharides)
SO Carbohydrates in Chemistry and Biology (2000), Volume 2, 845-860.
Editor(s): Ernst, Beat; Hart, Gerald W.; Sinay, Pierre. Publisher:
Wiley-VCH Verlag GmbH, Weinheim, Germany.
CODEN: 69AMJE
AU Geremia, Roberto A.; Samain, Eric
AN 2000:717510 HCAPLUS
DN 134:85146

L49 ANSWER 4 OF 204 MEDLINE on STN DUPLICATE 2
TI Large-scale production of oligosaccharides using
engineered bacteria.
SO Current opinion in structural biology, (2000 Oct) Vol. 10, No. 5, pp.
536-41. Ref: 50
Journal code: 9107784. ISSN: 0959-440X.
AU Endo T; Koizumi S
AN 2000502273 MEDLINE

L49 ANSWER 5 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI A novel approach to the recovery of biologically active oligosaccharides

from milk using a combination of enzymatic treatment and nanofiltration; combined lipase and nanofiltration of human defatted milk for production of oligosaccharide with anti-Escherichia coli activity

SO Biotechnol.Bioeng.; (2000) 69, 4, 461-67
CODEN: BIBIAU ISSN: 0006-3592

AU Sarney D B; Hale C; Frankel G; *Vulfson E N
AN 2000-10620 BIOTECHDS

L49 ANSWER 6 OF 204 MEDLINE on STN DUPLICATE 3
TI Microbial production of oligosaccharides: a review.

SO Advances in applied microbiology, (2000) Vol. 47, pp. 299-343. Ref: 115
Journal code: 0370413. ISSN: 0065-2164.

AU Prapulla S G; Subhaprada V; Karanth N G
AN 2003345491 MEDLINE

L49 ANSWER 7 OF 204 MEDLINE on STN DUPLICATE 4
TI Large-scale production of CMP-NeuAc and sialylated oligosaccharides through bacterial coupling.

SO Applied microbiology and biotechnology, (2000 Mar) Vol. 53, No. 3, pp. 257-61.
Journal code: 8406612. ISSN: 0175-7598.

AU Endo T; Koizumi S; Tabata K; Ozaki A
AN 2000233416 MEDLINE

L49 ANSWER 8 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of a di- and trisaccharide related to the repeating unit of E. coli O128 lipopolysaccharide

SO Journal of Carbohydrate Chemistry (2000), 19(2), 243-251
CODEN: JCACDM; ISSN: 0732-8303

AU Sengupta, Prabal; Basu, Sumanta; Chatterjee, Bishnu P.
AN 2000:228023 HCAPLUS
DN 133:30898

L49 ANSWER 9 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Solid-phase synthesis of a bacterial oligosaccharide antigen.

SO Abstracts of Papers, 220th ACS National Meeting, Washington, DC, United States, August 20-24, 2000 (2000) ORGN-216
CODEN: 69FZC3

AU Seeberger, Peter H.; Melean, Luis G.; Haase, Wilm C.
AN 2000:796718 HCAPLUS

L49 ANSWER 10 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Large-scale production of GDP-fucose and Lewis X by bacterial coupling

SO Journal of Industrial Microbiology & Biotechnology (2000), 25(4), 213-217
CODEN: JIMBFL; ISSN: 1367-5435

AU Koizumi, S.; Endo, T.; Tabata, K.; Nagano, H.; Ohnishi, J.; Ozaki, A.
AN 2001:59943 HCAPLUS
DN 134:236268

L49 ANSWER 11 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 5
TI Uronic acid-containing oligosaccharins: Their biosynthesis, degradation and signalling roles in non-diseased plant tissues

SO PLANT PHYSIOLOGY AND BIOCHEMISTRY, (JAN-FEB 2000) Vol. 38, No. 1-2, pp. 125-140.
ISSN: 0981-9428.

AU Dumville J C; Fry S C (Reprint)
AN 2000:283091 SCISEARCH

L49 ANSWER 12 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Effect on gut flora of oligosaccharide synthesizing enzymes

SO Shoka to Kyushu (2000), 23(2), 107-109

CODEN: SHKYEZ; ISSN: 0389-3626
AU Kariya, Kinya; Ogawa, Tomonari; Jo, Takashi
AN 2001:384881 HCAPLUS
DN 135:150320

L49 ANSWER 13 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 6
TI Effect of oligosaccharides and fibre substitutes on short-chain fatty acid production by human faecal microflora
SO ANAEROBE, (APR 2000) Vol. 6, No. 2, pp. 87-92.
ISSN: 1075-9964.
AU Velazquez M; Davies C; Maret R; Slavin J L; Feirtag J M (Reprint)
AN 2000:339021 SCISEARCH

L49 ANSWER 14 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 7
TI Functional analysis of chimeras derived from the Sinorhizobium meliloti and Mesorhizobium loti nodC genes identifies regions controlling chitin oligosaccharide chain length
SO Molecular and General Genetics [Mol. Gen. Genet.], (20000905) vol. 264, no. 1/2, pp. 75-81.
ISSN: 0026-8925.
AU Kamst, E.; Breek, C.K.; Spaink, H.P.
AN 2001:17471 LIFESCI

L49 ANSWER 15 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI Solid-phase synthesis of a bacterial oligosaccharide antigen.
SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (20 AUG 2000) Vol. 220, Part 2, pp. U66-U66. MA 216-ORGN.
ISSN: 0065-7727.
AU Seeberger P H (Reprint); Melean L G; Haase W C
AN 2001:131060 SCISEARCH

L49 ANSWER 16 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Study on fructo-oligosaccharide production by microbial enzymatic reaction
SO Shipin Kexue (Beijing) (2000), 21(6), 31-35
CODEN: SPKHD5; ISSN: 1002-6630
AU Cao, Xia; Zhang, Wei; Wang, Yingfeng; Yang, Xiushan
AN 2000:467331 HCAPLUS
DN 133:149512

L49 ANSWER 17 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI Solid-phase synthesis of a bacterial oligosaccharide antigen.
SO Abstracts of Papers American Chemical Society, (2000) Vol. 220, No. Part 2, pp. ORGN 216. print.
Meeting Info.: 220th National Meeting of the American Chemical Society. Washington, DC, Washington DC, USA. August 20-24, 2000. American Chemical Society.
CODEN: ACSRAL. ISSN: 0065-7727.
AU Seeberger, Peter H. [Reprint author]; Melean, Luis G. [Reprint author]; Haase, Wilm C. [Reprint author]
AN 2000:440809 BIOSIS

L49 ANSWER 18 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI A process for preparation of 6-kestose oligosaccharides; by Acetobacter polysaccharogenes or Gluconobacter albidus activity on sucrose
AN 1999-06786 BIOTECHDS
PI JP 11046785 23 Feb 1999

L49 ANSWER 19 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN

TI Growth stimulator for vascular endothelial cells - containing an alginic acid oligosaccharide obtained by treating alginic acid with Alteromonas sp. microorganisms or their cultured product
PI JP 11043439 A 19990216 (199917)* JA 7[3]
IN HIURA N; KAWADA A; OKADA T; TAKAHARA H

L49 ANSWER 20 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Cloning, expression and characterization of a UDP-galactose 4-epimerase from Escherichia coli;
plasmid pET15b-galE expression in bacterium for enzyme production and application in alpha-Gal oligosaccharide production for xenotransplantation support
SO Biotechnol.Lett.; (1999) 21, 12, 1131-35
CODEN: BILED3 ISSN: 0141-5492
AU Chen X; Kowal P; Hamad S; Fan H; *Wang P G
AN 2000-02215 BIOTECHDS

L49 ANSWER 21 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Beta-galactooligosaccharide synthesis with beta-galactosidase from Sulfolobus solfataricus, Aspergillus oryzae, and Escherichia coli; oligosaccharide production using thermostable and non-thermostable enzyme
SO Enzyme Microb.Technol.; (1999) 25, 6, 509-16
CODEN: EMTED2 ISSN: 0141-0229
AU Reuter S; Nygaard A R; *Zimmermann W
AN 1999-12884 BIOTECHDS

L49 ANSWER 22 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Synthesis of alpha-galacto-oligosaccharides by a cloned alpha-galactosidase from Bifidobacterium adolescentis; galacto-oligosaccharide probiotic production using transformed Escherichia coli
SO Biotechnol.Lett.; (1999) 21, 5, 441-45
CODEN: BILED3 ISSN: 0141-5492
AU van den Broek L A M; Ton J; Verdoes J C; van Laere K M J; *Voragen A G J; Beldman G
AN 1999-10111 BIOTECHDS

L49 ANSWER 23 OF 204 MEDLINE on STN DUPLICATE 8
TI Microbial production of inulo-oligosaccharides by an endoinulinase from Pseudomonas sp. expressed in Escherichia coli.
SO Journal of bioscience and bioengineering, (1999) Vol. 87, No. 3, pp. 291-5.
Journal code: 100888800. ISSN: 1389-1723.
AU Yun J W; Choi Y J; Song C H; Song S K
AN 2005556787 MEDLINE

L49 ANSWER 24 OF 204 MEDLINE on STN DUPLICATE 9
TI Oligosaccharide recognition signals and defence reactions in marine plant-microbe interactions.
SO Current opinion in microbiology, (1999 Jun) Vol. 2, No. 3, pp. 276-83.
Ref: 64
Journal code: 9815056. ISSN: 1369-5274.
AU Potin P; Bouarab K; Kupper F; Kloareg B
AN 1999316463 MEDLINE

L49 ANSWER 25 OF 204 MEDLINE on STN DUPLICATE 10
TI Electron beam fragmentation of bacterial polysaccharides as a method of producing oligosaccharides for the preparation of conjugate vaccines.
SO FEMS microbiology letters, (1999 May 15) Vol. 174, No. 2, pp. 255-63.
Journal code: 7705721. ISSN: 0378-1097.
AU Pawlowski A; Svenson S B
AN 1999271175 MEDLINE

L49 ANSWER 26 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Isolation of endophytes from plants in Southeast Asia and Japan, and their identification by 18S rRNA gene
SO Biotechnology for Sustainable Utilization of Biological Resources in the Tropics (1999), 13, 227-232
CODEN: BSUTFT
AU Tanaka, Michiko; Sukiman, Harmastini; Takebayashi, Miho; Saito, Katsuichi; Suto, Manabu; Prana, Titik K.; Prana, Made Sri; Tomita, Fusao
AN 2000:309091 HCAPLUS
DN 133:234880

L49 ANSWER 27 OF 204 MEDLINE on STN DUPLICATE 11
TI The living factory: in vivo production of N-acetyllactosamine containing carbohydrates in E. coli.
SO Glycoconjugate journal, (1999 Mar) Vol. 16, No. 3, pp. 205-12.
Journal code: 8603310. ISSN: 0282-0080.
AU Bettler E; Samain E; Chazalet V; Bosso C; Heyraud A; Joziasse D H; Wakarchuk W W; Imbert A; Geremia A R
AN 2000062031 MEDLINE

L49 ANSWER 28 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 12
TI Functional domains in the chitin oligosaccharide synthase NodC and related beta-polysaccharide synthases
SO TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY, (JUL 1999) Vol. 11, No. 60, pp. 187-199.
ISSN: 0915-7352.
AU Kamst E (Reprint); Spalink P H
AN 1999:787324 SCISEARCH

L49 ANSWER 29 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 13
TI Chemical synthesis of N-acetylglucosamine derivatives and their use as glycosyl acceptors by the *Mesorhizobium loti* chitin oligosaccharide synthase NodC
SO CARBOHYDRATE RESEARCH, (15 OCT 1999) Vol. 321, No. 3-4, pp. 176-189.
ISSN: 0008-6215.
AU Kamst E; Zegelaar-Jaarsveld K; van der Marel G A; van Boom J H; Lugtenberg B J J; Spalink H P (Reprint)
AN 1999:941201 SCISEARCH

L49 ANSWER 30 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 14
TI Synthesis of inner core antigens related to Chlamydia, *Pseudomonas* and *Acinetobacter* LPS
SO Journal of Endotoxin Research [J. Endotoxin Res.], (19990000) vol. 5, no. 3, pp. 157-163.
ISSN: 0968-0519.
AU Kosma, P.; Reiter, A.; Zamyatina, A.; Wimmer, N.; Glueck, A.; Brade, H.
AN 2000:15260 LIFESCI

L49 ANSWER 31 OF 204 MEDLINE on STN DUPLICATE 15
TI Synthesis of oligosaccharides by bacterial enzymes.
SO Glycoconjugate journal, (1999 Feb) Vol. 16, No. 2, pp. 141-6. Ref: 54
Journal code: 8603310. ISSN: 0282-0080.
AU Johnson K F
AN 2000077660 MEDLINE

L49 ANSWER 32 OF 204 MEDLINE on STN DUPLICATE 16
TI Enzymatic synthesis of Kdn oligosaccharides by a bacterial alpha-(2-->6)-sialyltransferase.
SO Carbohydrate research, (1999 Jan 31) Vol. 315, No. 1-2, pp. 137-41.
Journal code: 0043535. ISSN: 0008-6215.
AU Kajihara Y; Akai S; Nakagawa T; Sato R; Ebata T; Kodama H; Sato K
AN 1999313754 MEDLINE

L49 ANSWER 33 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Isolation of chitinolytic bacteria from the viscera of korean bony fishes and optimization of the enzyme production
SO Journal of Fisheries Science and Technology (1999), 2(1), 105-111
CODEN: JFIFTY; ISSN: 1226-9204
AU Lee, Jung-Suck; Joo, Dong-Sik; Cho, Soon-Yeong; Cho, Man-Gi; Lee, Eung-Ho
AN 1999:731614 HCAPLUS
DN 132:90444

L49 ANSWER 34 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 17
TI Production of inulo-oligosaccharides from inulin by recombinant E-coli containing endoinulinase activity
SO BIOPROCESS ENGINEERING, (AUG 1999) Vol. 21, No. 2, pp. 101-106.
ISSN: 0178-515X.
AU Yun J W (Reprint); Song C H; Choi J W; Choi Y J; Song S K
AN 1999:629397 SCISEARCH

L49 ANSWER 35 OF 204 MEDLINE on STN DUPLICATE 18
TI Function of chitin oligosaccharides in plant and animal development.
SO EXS, (1999) Vol. 87, pp. 71-83. Ref: 59
Journal code: 9204529. ISSN: 1023-294X.
AU Bakkers J; Kijne J W; Spalink H P
AN 2000391648 MEDLINE

L49 ANSWER 36 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Problems and strategies of oligosaccharide synthesis using microbial enzymes
SO Shipin Yu Fajiao Gongye (1999), 25(4), 41-47
CODEN: SPYYDO; ISSN: 0253-990X
AU Cao, Jinsong; Wang, Xiaoqin; Peng, Zhiying
AN 1999:715896 HCAPLUS
DN 132:264230

L49 ANSWER 37 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI Production of O-acetylated and sulfated chitooligosaccharides by recombinant Escherichia coli strains harboring different combinations of nod genes.
SO Journal of Biotechnology, (June 11, 1999) Vol. 72, No. 1-2, pp. 33-47.
print.
CODEN: JBITD4. ISSN: 0168-1656.
AU Samain, Eric [Reprint author]; Chazalet, Valerie; Geremia, Roberto A.
AN 1999:349692 BIOSIS

L49 ANSWER 38 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 19
TI Analysis and characterisation of cyclodextrins and their inclusion complexes by affinity capillary electrophoresis
SO JOURNAL OF CHROMATOGRAPHY A, (19 MAR 1999) Vol. 836, No. 1, pp. 3-14.
ISSN: 0021-9673.
AU Larsen K L; Zimmermann W (Reprint)
AN 1999:250031 SCISEARCH

L49 ANSWER 39 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Expressing high levels of glycosyltransferases; recombinant enzyme production via vector-mediated glycosyltransferase gene transfer and expression in Escherichia coli for therapeutic oligosaccharide production
AU Wakarchuk W W; Young N M
AN 1999-02440 BIOTECHDS
PI WO 9854331 3 Dec 1998

L49 ANSWER 40 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Gene encoding a beta-galactoside-alpha-2,6-sialyltransferase of bacterial origin;
Photobacterium damsela recombinant enzyme production by vector expression in Escherichia coli for use in sialylated oligosaccharide production
AU Yamamoto T; Nakashizuka M; Terada I
AN 1998-10644 BIOTECHDS
PI WO 9838315 3 Sep 1998

L49 ANSWER 41 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of fructosyl-containing oligosaccharides and products therefrom for bifidobacterium-nourishing medium
SO U.S., 7 pp., Cont. of U.S. Ser. No. 282,807, abandoned.

CODEN: USXXAM

IN Whistler, Roy L.; Bemiller, James N.

AN 1998:799690 HCPLUS

DN 130:35374

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI US 5843922 | A | 19981201 | US 1996-662201 | 19960611 |

L49 ANSWER 42 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Use of anti-endotoxin synthetic peptides and anti-endotoxin antibodies for the prophylaxis and treatment of endotoxicosis and septic shock and other conditions associated with lipopolysaccharide.
PI EP 842666 A2 19980520 (199824)* EN 5[0]
R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO
SE SI
IT 1287158 B 19980804 (200055) IT
IN PORRO M

L49 ANSWER 43 OF 204 MEDLINE on STN DUPLICATE 20

TI Use of Escherichia coli polyphosphate kinase for oligosaccharide synthesis.
SO Bioscience, biotechnology, and biochemistry, (1998 Aug) Vol. 62, No. 8, pp. 1594-6.
Journal code: 9205717. ISSN: 0916-8451.

AU Noguchi T; Shiba T
AN 1998430132 MEDLINE

L49 ANSWER 44 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Use of Escherichia coli polyphosphate-kinase for oligosaccharide synthesis;
recombinant enzyme production and purification via vector plasmid pTrc-PPK-mediated ppk gene transfer and expression in bacterium
SO Biosci.Biotechnol.Biochem.; (1998) 62, 8, 1594-96
CODEN: BBBIEJ ISSN: 0916-8451
AU Hoguchi T; Shiba T
AN 1999-12277 BIOTECHDS

L49 ANSWER 45 OF 204 MEDLINE on STN DUPLICATE 21
TI Large-scale production of UDP-galactose and globotriose by coupling metabolically engineered bacteria.
SO Nature biotechnology, (1998 Sep) Vol. 16, No. 9, pp. 847-50.
Journal code: 9604648. ISSN: 1087-0156.
AU Koizumi S; Endo T; Tabata K; Ozaki A
AN 1998414050 MEDLINE

L49 ANSWER 46 OF 204 MEDLINE on STN DUPLICATE 22
TI Isolation and structural analyses of positional isomers of 6(1),6m-di-O-alpha-D-mannopyranosyl-cyclomaltooctaose ($m = 2-5$) and 6-O-alpha-(n-O-alpha-D-mannopyranosyl)-alpha-D-mannopyranosyl-cyclomaltooctaose ($n = 2, 3, 4$, and 6).
SO Carbohydrate research, (1998 Aug) Vol. 310, No. 4, pp. 229-38.
Journal code: 0043535. ISSN: 0008-6215.

AU Okada Y; Matsuda K; Koizumi K; Hamayasu K; Hashimoto H; Kitahata S
AN 1999038702 MEDLINE

L49 ANSWER 47 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI New heat stable xylanase and related nucleic acid and vectors;
thermostable endo-1,4-beta-D-xylanase expression from new vector in
microorganism for use in xylose, xylo-oligosaccharide
production, pulp bleaching, feedstuff treatment, etc.
AU Perez S; Breton C; Debeire P
AN 1997-07295 BIOTECHDS
PI WO 9714803 24 Apr 1997

L49 ANSWER 48 OF 204 MEDLINE on STN DUPLICATE 23
TI Chitin oligosaccharides can induce cortical cell division in roots of
Vicia sativa when delivered by ballistic microtargeting.
SO Development (Cambridge, England), (1997 Dec) Vol. 124, No. 23, pp.
4887-95.
Journal code: 8701744. ISSN: 0950-1991.
AU Schlaman H R; Gisel A A; Quaedvlieg N E; Bloemberg G V; Lugtenberg B J;
Kijne J W; Potrykus I; Spaink H P; Sautter C
AN 1998088701 MEDLINE

L49 ANSWER 49 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 24
TI Honeydew sugars and osmoregulation in the pea aphid Acyrthosiphon pisum
SO JOURNAL OF EXPERIMENTAL BIOLOGY, (AUG 1997) Vol. 200, No. 15, pp.
2137-2143.
ISSN: 0022-0949.
AU Wilkinson T L (Reprint); Ashford D A; Pritchard J; Douglas A E
AN 1997:587016 SCISEARCH

L49 ANSWER 50 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Comparison of two levanases producing specific lengths of
levan-oligosaccharides
SO Kagaku to Kogyo (Osaka) (1997), 71(9), 386-391
CODEN: KKGOAG; ISSN: 0368-5918
AU Murakami, Hiromi; Kitahata, Sumio
AN 1997:611452 HCAPLUS
DN 127:259432

L49 ANSWER 51 OF 204 MEDLINE on STN DUPLICATE 25
TI Role of intestinal bacteria in nutrient metabolism.
SO JPEN. Journal of parenteral and enteral nutrition, (1997 Nov-Dec) Vol. 21,
No. 6, pp. 357-65. Ref: 104
Journal code: 7804134. ISSN: 0148-6071.
AU Cummings J H; Macfarlane G T
AN 1998069210 MEDLINE

L49 ANSWER 52 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI An endo-chitosanase from Bacillus sp. GM44 that produces chitosan
oligosaccharides with high degree of polymerization
SO Advances in Chitin Science (1997), 2, 296-301
CODEN: ACSCFF
AU Choi, Yeun Jin; Kim, Eun Jung; Kim, Tae Un; Shin, Yong Chul
AN 1998:181377 HCAPLUS
DN 128:291908

L49 ANSWER 53 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 26
TI Synthesis of oligosaccharides of bacterial
origin containing heptoses, uronic acids and fructofuranoses as synthetic
challenges
SO GLYCOSCIENCE SYNTHESIS OF OLIGOSACCHARIDES AND GLYCOCONJUGATES, (1997)
Vol. 186, pp. 171-202.
ISSN: 0342-6793.

AU Oscarson S (Reprint)
AN 1997:240441 SCISEARCH

L49 ANSWER 54 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Study on the production of oligosaccharides by using enzymes from *Bacillus* genus
SO Oyo Toshitsu Kagaku (1997), 44(1), 61-67
CODEN: OTKAE3; ISSN: 1340-3494
AU Oguma, Tetsuya
AN 1997:369287 HCAPLUS
DN 127:49228

L49 ANSWER 55 OF 204 MEDLINE on STN DUPLICATE 27
TI Gram-scale synthesis of recombinant chitooligosaccharides in *Escherichia coli*.
SO Carbohydrate research, (1997 Jul 11) Vol. 302, No. 1-2, pp. 35-42.
Journal code: 0043535. ISSN: 0008-6215.
AU Samain E; Drouillard S; Heyraud A; Driguez H; Geremia R A
AN 97393445 MEDLINE

L49 ANSWER 56 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 28
TI Role of intestinal bacteria in nutrient metabolism
SO CLINICAL NUTRITION, (FEB 1997) Vol. 16, No. 1, pp. 3-11.
ISSN: 0261-5614.
AU Cummings J H (Reprint); Macfarlane G T
AN 1997:315016 SCISEARCH

L49 ANSWER 57 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI New *Aspergillus fumigatus* mutant capable of decomposing chitosan - is used to produce chitosan-oligosaccharide by culturing the microbe
PI JP 08322554 A 19961210 (199718)* JA 7[5]
JP 2797081 B2 19980917 (199842) JA 7
KR 140430 B1 19980701 (200017) KO
IN JUNG B; LEE S

L49 ANSWER 58 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI *Rhizobium leguminosarum* bv. *trifolii* produces lipo-chitin oligosaccharides with nodE-dependent highly unsaturated fatty acyl moieties. An electrospray ionization and collision-induced dissociation tandem mass spectrometric study
SO Journal of Biological Chemistry (1996), 271(37), 22563-22569
CODEN: JBCHA3; ISSN: 0021-9258
AU van der Drift, Koen M. G. M.; Spaink, Herman P.; Bloomberg, Guido V.; van Brussel, Anton A. N.; Lugtenberg, Ben J. J.; Haverkamp, Johan; Thomas-Oates, Jane E.
AN 1996:572214 HCAPLUS
DN 125:269553

L49 ANSWER 59 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Production of galacto-oligosaccharide from lactose by *Sterigmatomyces elviae* CBS8119. [Erratum to document cited in CA123:312277]
SO Applied and Environmental Microbiology (1996), 62(4), 1491
CODEN: AEMIDF; ISSN: 0099-2240
AU Onishi, Norimasa; Yamashiro, Akihiro; Yokozeki, Kenzo
AN 1996:213785 HCAPLUS
DN 125:56295

L49 ANSWER 60 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Controlled bioconversion of the extracellular polysaccharide of *Klebsiella pneumoniae* LMG 3136;
L-fucose-containing polysaccharide production and degradation by soil-derived microorganism for oligosaccharide production (conference paper)

SO Meded.Fac.Landbouwwet.Rijksuniv.Gent; (1996) 61, 4A, 1445-48
CODEN: MFLRA3 ISSN: 0368-9697
Applied Biotechnology, 10th Forum, Ghent, Belgium, 26-27 September, 1996.
AU Vanhooren P T; Mornie C J C; Vandamme E J
AN 1996-15510 BIOTECHDS

L49 ANSWER 61 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 29
TI Chemical approaches to bacterial vaccines. Synthesis
of mycobacterial oligosaccharide-protein conjugates for use as
serodiagnostics and immunogens
SO BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, (18 JUN 1996) Vol. 6, No. 12,
pp. 1387-1392.
ISSN: 0960-894X.
AU Dubois E P (Reprint); Robbins J B; Pozsgay V
AN 1996:487315 SCISEARCH

L49 ANSWER 62 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Cladinose analogs of sixteen-membered macrolide antibiotics. I. Synthesis
of 4-O-alkyl-L-cladinose analogs via glycosidation
SO Journal of Antibiotics (1996), 49(6), 582-592
CODEN: JANTAJ; ISSN: 0021-8820
AU Kurihara, Ken-ichi; Ajito, Keichi; Shibahara, Seiji; Ishizuka, Tsuneo;
Hara, Osamu; Araake, Minako; Omoto, Shioji
AN 1996:390305 HCAPLUS
DN 125:168505

L49 ANSWER 63 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Production and application of microbial endoglycosidases acting on
oligosaccharides of glycoconjugates
SO Microbial Utilization of Renewable Resources (1996), Volume Date 1995, 9,
420-429
CODEN: MURRE6
AU Yamamoto, Kenji; Kadokawa, Setsu; Takegawa, Kaoru; Fan, Jian-Qiang;
Ashida, Hisashi; Kumagai, Hidehiko; Tochikura, Tatsurokuro
AN 1996:510616 HCAPLUS
DN 125:161907

L49 ANSWER 64 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Sugar signals and legume lectins
SO Biology of Plant-Microbe Interactions (1996), Volume 1, 399-402 Publisher:
International Society for Molecular Plant-Microbe Interactions, St. Paul,
Minn.
CODEN: BPIIAC
AU Diaz, Clara L.; Spaink, Herman P.; Kijne, Jan W.
AN 1997:239949 HCAPLUS
DN 126:235885

L49 ANSWER 65 OF 204 MEDLINE on STN DUPLICATE 30
TI Structural determination of symbiotic nodulation factors from the broad
host-range Rhizobium species NGR234.
SO Carbohydrate research, (1996 Aug 19) Vol. 289, pp. 115-36.
Journal code: 0043535. ISSN: 0008-6215.
AU Price N P; Talmont F; Wieruszewski J M; Prome D; Prome J C
AN 96399206 MEDLINE

L49 ANSWER 66 OF 204 NTIS COPYRIGHT 2008 NTIS on STN
TI Seibutsu kino wo riyoshita chikyu kankyo kaizen gjutsu ni kansuru
chosa. Lignobio process no kochiku. (Investigation into technology for
improving the global environment using biological functions.
Construction of the lignobiological process).
NR DE96739631/XAB; NEDO-GET-9402
PD 252p; Mar 1995
AN Mar 1995
AN 1996(19):04476 NTIS

L49 ANSWER 67 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Production of microorganism to yield chitosan
oligosaccharide;
purification from Absidia coerulea or Mucor tuberculifer by cell
wall lysis using Bacillus sp. chitosanase or Trichoderma sp. cellulase
lytic enzyme

AN 1995-11530 BIOTECHDS
PI JP 07155193 20 Jun 1995

L49 ANSWER 68 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI New protein with cycloinulo-oligosaccharide-fructanotransferase activity;
recombinant enzyme production by gene expression in Bacillus circulans

AN 1995-06720 BIOTECHDS
PI JP 07041500 10 Feb 1995

L49 ANSWER 69 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI New pyrazine derivative inhibiting agglutination of erythrocytes or platelets
- is prepared from chitin or chitin oligosaccharide by reacting with an
enzyme produced by Vibrio alginolyticus

PI JP 07118286 A 19950509 (199527)* JA 7[4]
IN MATSUDA A; MURAO S; OKAMURA K; TONE H; YANAI T

L49 ANSWER 70 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Bacterial toxin neutraliser - comprises the aminocarbonyl prod. obtained
from protein and oligosaccharide having galactose at non-reducing terminal
and glucose at reducing terminal of saccharide chain

PI JP 07033679 A 19950203 (199515)* JA 4[0]
IN SHIDA H; TAKAMIZAWA K

L49 ANSWER 71 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Producing oligosaccharide(s) containing panose - by inoculating Saccharomyces
microbes in medium containing maltose as carbon source, culturing in aerobic
conditions and separating produced panose

PI JP 07008287 A 19950113 (199512)* JA 4[0]
IN NISHIDA K; OCHIAI T

L49 ANSWER 72 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Producing oligosaccharide(s) containing panose - by inoculating Monilella
microbes to medium containing maltose carbon source, aerobically culturing and
separating obtd. panose

PI JP 07008286 A 19950113 (199512)* JA 4[0]
IN NISHIDA K; OCHIAI T

L49 ANSWER 73 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Panose-containing oligosaccharide production for food and drink or drugs -
comprises inoculating Debaryomyces in maltose-containing medium, and culturing
microbe in aerobic conditions

PI JP 07008285 A 19950113 (199512)* JA 4[0]
IN NISHIDA K; OCHIAI T

L49 ANSWER 74 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Panose containing oligosaccharide production, used for food, drink or drugs -
involves culturing Aureobasidium microbes under aerobic conditions using
maltose containing medium

PI JP 07008283 A 19950113 (199512)* JA 6[0]
IN NISHIDA K; OCHIAI T; WAKAO K

L49 ANSWER 75 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Mass spectrometric analysis of chitin oligosaccharides produced by
Rhizobium NodC protein in Escherichia coli

SO Journal of Bacteriology (1995), 177(21), 6282-5
CODEN: JOBAAY; ISSN: 0021-9193

AU Kamst, Eric; van der Drift, Koen M. G. M.; Thomas-Oates, Jane E.;
Lugtenberg, Ben J. J.; Spalink, Herman P.

AN 1995:904021 HCAPLUS
 DN 123:310015

L49 ANSWER 76 OF 204 MEDLINE on STN DUPLICATE 32
 TI Production of galacto-oligosaccharide from lactose by *Sterigmatomyces elviae* CBS8119.
 SO Applied and environmental microbiology, (1995 Nov) Vol. 61, No. 11, pp. 4022-5.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Onishi N; Yamashiro A; Yokozeki K
 AN 96064415 MEDLINE

L49 ANSWER 77 OF 204 MEDLINE on STN DUPLICATE 33
 TI Synthesis of "Nod"-like chitin oligosaccharides by the Xenopus developmental protein DG42.
 SO Proceedings of the National Academy of Sciences of the United States of America, (1995 Apr 11) Vol. 92, No. 8, pp. 3498-501.
 Journal code: 7505876. ISSN: 0027-8424.
 AU Semino C E; Robbins P W
 AN 95241529 MEDLINE

L49 ANSWER 78 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
 TI Studies on a recombinant amylosucrase;
 Neisseria polysaccharea enzyme expression in *Escherichia coli*,
 for potential use in oligosaccharide production
 (conference paper)
 SO Prog.Biotechnol.; (1995) 10, 313-20
 CODEN: PBITE3 ISSN: 0921-0423
 Carbohydrate Bioengineering, International Conference, Elsinore, Denmark,
 23-26 April, 1995.
 AU Remaud-Simeon M; Albaret F; Canard B; Varlet I; Colonna P; Willemot R M;
 Monsan P
 AN 1996-10216 BIOTECHDS

L49 ANSWER 79 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Sannamycin-type amino glycoside antibiotics of natural and non-natural (mirror-image) configuration - total syntheses and biological activity
 SO Liebigs Annalen (1995), (2), 291-316
 CODEN: LANAEM; ISSN: 0947-3440
 AU Ludin, Christian; Weller, Thomas; Seitz, Bernhard; Meier, Walter; Erbeck, Silke; Hoenke, Christoph; Krieger, Richard; Keller, Manfred; Knothe, Lothar; et al.
 AN 1995:348064 HCAPLUS
 DN 123:257178

L49 ANSWER 80 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 34
 TI BIOTECHNICAL MODIFICATION OF CARBOHYDRATES
 SO FEMS MICROBIOLOGY REVIEWS, (FEB 1995) Vol. 16, No. 2-3, pp. 163-186.
 ISSN: 0168-6445.
 AU VANDAMME E J (Reprint); SOETAERT W
 AN 1995:170580 SCISEARCH

L49 ANSWER 81 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Oligosaccharide pharmaceuticals
 SO Biol. Approaches Ration. Drug Des. (1995), 131-47. Editor(s): Weiner, David B.; Williams, William V. Publisher: CRC, Boca Raton, Fla.
 CODEN: 61EZA8
 AU Roth, Stephen; Zopf, David
 AN 1995:546987 HCAPLUS
 DN 123:112522

L49 ANSWER 82 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Synthesis of 5-deoxy-5-epifluoro derivatives of arbekacin, amikacin, and 1-N-[(S)-4-amino-2-hydroxybutanoyl]tobramycin (study on structure-toxicity

relationships)

SO Carbohydrate Research (1995), 276(1), 75-89
CODEN: CRBRAT; ISSN: 0008-6215

AU Shitara, Tetsuo; Umemura, Eijiro; Tsuchiya, Tsutomu; Matsuno, Tomio
AN 1995:902492 HCAPLUS
DN 124:176722

L49 ANSWER 83 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Production of fructosylxyloside from Scopulaliopsis brevicaulis. II.
Method for crystallizing fructosylxyloside in water and the
characteristics of crystals

SO Seito Gijutsu Kenkyu Kaishi (1995), 43, 43-9
CODEN: SGKA6; ISSN: 0370-9841

AU Takeda, Hiroyuki; Sato, Yuzi; Tukada, Masayuki; Hidano, Tetuhiro
AN 1996:261077 HCAPLUS
DN 124:287170

L49 ANSWER 84 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Studies on oligosaccharides related to gram-negative bacterial O-antigen

SO Huaxue Tongbao (1995), (3), 25-30
CODEN: HHTPAU; ISSN: 0441-3776

AU Zhang, Jian; Mao, Jianmin; Cai, Mengshen
AN 1995:886680 HCAPLUS
DN 123:282954

L49 ANSWER 85 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Production of *Bacillus licheniformis* maltogenic amylase (BLMA) in
recombinant *E. coli*;
over-production in *Escherichia coli* high cell density fed-batch
culture by suppression of citric acid formation (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1995) 209 Meet., Pt.1, BIOT119
CODEN: ACSRAL ISSN: 0065-7727
209th ACS National Meeting, Anaheim, CA, 2-6 April, 1995.

AU Lee W J; Kim M D; Park K H; Seo J H
AN 1995-13425 BIOTECHDS

L49 ANSWER 86 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Glycosyltransferases in oligosaccharide synthesis: selective
beta-mannosylation of chitobiose to the N-linked core trisaccharide of
glycoproteins;
beta-mannosyltransferase over-expression in *Escherichia coli*
and purification and immobilization for oligosaccharide
production (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1995) 209 Meet., Pt.1, BIOT114
CODEN: ACSRAL ISSN: 0065-7727
209th ACS National Meeting, Anaheim, CA, 2-6 April, 1995.

AU Flitsch S L
AN 1995-13381 BIOTECHDS

L49 ANSWER 87 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI A gene encoding a protein having agarase activity;
Vibrio sp. recombinant agarase production following gene cloning and
expression in *Escherichia coli*; potential application in
neo-agaro-oligosaccharide production

AN 1995-01816 BIOTECHDS
PI JP 06284888 11 Oct 1994

L49 ANSWER 88 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Cyclic inulo-oligosaccharide(s) for foodstuff additives - obtd. by
treating inulin with the supernatant or cells from culture of a
microorganism which produces a suitable enzyme

PI WO 9410295 A1 19940511 (199420)* JA 15[0]
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: US
JP 06141856 A 19940524 (199425) JA 3[0]

IN JP 06141879 A 19940524 (199425) JA 4
IN KUSHIBE S; MORIMOTO H; MORIMOTO Y

L49 ANSWER 89 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI New tetra:glycose and its partial fatty acid ester used as surfactant - obtd. by culturing microorganisms of Actinomycetes or Micropolyspora genus in medium

PI JP 06298784 A 19941025 (199502)* JA 5[0]
JP 2564752 B2 19961218 (199704) JA 5[0]

IN GAMA Y; ISHIGAMI Y; ITO T; SOMEYA J; TAKAMORI Y

L49 ANSWER 90 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI New cyclo-iso:malto-oligosaccharide(s) - are inclusion agents which can solubilise and stabilise substances and for use in e.g. medicaments and food

PI EP 608636 A1 19940803 (199430)* EN 15[4]
R: DE FR GB NL SE
JP 06197783 A 19940719 (199433) JA 6[3]
US 5364936 A 19941115 (199445) EN 10[4]
JP 07008276 A 19950113 (199512) JA 7
US 5453369 A 19950926 (199544) EN 10[4]
EP 608636 B1 19970305 (199714) EN 17[4]
R: DE FR GB NL SE
DE 69308531 E 19970410 (199720) DE
JP 3075873 B2 20000814 (200043) JA 6
JP 3117328 B2 20001211 (200101) JA 9

IN HORIUCHI T; OGUMA T; OGUMAM T; OGUMAN T; TOBE K

L49 ANSWER 91 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN
TI Recombinant whole cells as catalysts for enzymic synthesis of oligosaccharides and glycopeptides

SO Angewandte Chemie (1994), 106(12), 1346-7 (See also Angew. Chem., Int. Ed. Engl., 1994, 33(12), 1241-2)
CODEN: ANCEAD; ISSN: 0044-8249

AU Herrmann, Guido F.; Wang, Peng; Shen, Gwo-Jenn; Wong, Chi-Huey
AN 1994:555800 HCPLUS
DN 121:155800

L49 ANSWER 92 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI On the action mechanism of cyclomaltodextrin-glucanotransferases from alkalophilic, thermophilic and mesophilic microorganisms; cyclomaltodextrin-glucanotransferase characterization for use in cyclodextrin production

SO Biokhimiya; (1994) 59, 8, 1122-29
CODEN: BIOHAO

AU Abelian V H; Yamamoto T; Afrikian E G
AN 1994-14334 BIOTECHDS

L49 ANSWER 93 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN
TI The in vitro biosynthesis of functional nodulation factors (Nod Rm) produced by Rhizobium meliloti 1021

SO Cellular and Molecular Biology (Paris) (1994), 40(7), 1029-37
CODEN: CMOBEG; ISSN: 0145-5680

AU Semino, Carlos E.; Dankert, Marcelo A.
AN 1995:140594 HCPLUS
DN 122:27438

L49 ANSWER 94 OF 204 MEDLINE on STN DUPLICATE 35
TI Nodulation protein NodL of Rhizobium leguminosarum O-acetylates lipo-oligosaccharides, chitin fragments and N-acetylglucosamine in vitro.

SO Molecular microbiology, (1994 Feb) Vol. 11, No. 4, pp. 793-804.
Journal code: 8712028. ISSN: 0950-382X.

AU Bloomberg G V; Thomas-Oates J E; Lugtenberg B J; Spaink H P
AN 94254735 MEDLINE

L49 ANSWER 95 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Molecular signals related to the nodulation of legumes by rhizobia
SO Revista Brasileira de Ciencia do Solo (1994), 18(3), 339-64
CODEN: RBCSDP; ISSN: 0100-0683
AU Hungria, M.
AN 1995:669935 HCAPLUS
DN 123:193547

L49 ANSWER 96 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Batch production of high-content fructo-oligosaccharides from sucrose by
the mixed-enzyme system of beta-fructofuranosidase and glucose-oxidase;
application as a sweetener
SO J.Ferment.Bioeng.; (1994) 77, 2, 159-63
CODEN: JFBIEX
AU Yun J W; Lee M G; *Song S K
AN 1994-05190 BIOTECHDS

L49 ANSWER 97 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI The molecular basis of host specificity in the Rhizobium
leguminosarum-plant interaction
SO Current Plant Science and Biotechnology in Agriculture (1994), 21(Advances
in Molecular Genetics of Plant-Microbe Interactions, Vol. 3), 91-8
CODEN: CPBAE2; ISSN: 0924-1949
AU Spaink, Herman P.; Bloomberg, Guido V.; Wijfjes, Andre H. M.; Ritsema,
Tita; Geiger, Otto; Lopez-Lara, Isabel M.; Hartevelde, Marga;
Kafetzopoulos, Dimitris; Brussel, van Anton A. N.; et al.
AN 1995:671648 HCAPLUS
DN 123:79085

L49 ANSWER 98 OF 204 MEDLINE on STN DUPLICATE 36
TI The molecular basis of the host specificity of the Rhizobium bacteria.
SO Antonie van Leeuwenhoek, (1994) Vol. 65, No. 2, pp. 81-98. Ref: 49
Journal code: 0372625. ISSN: 0003-6072.
AU Spaink H P
AN 95070066 MEDLINE

L49 ANSWER 99 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Large scale heterologous expression, purification and synthetic studies
of an alpha-1,2-mannosyltransferase;
gene cloning in Escherichia coli for use in
oligosaccharide and glycopeptide production
(conference abstract)
SO Abstr.Pap.Am.Chem.Soc.; (1994) 207 Meet., Pt.1, BIOT156
CODEN: ACSRAL
AU Herrmann G F; Wong C H
AN 1994-06460 BIOTECHDS

L49 ANSWER 100 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Sebum secretagogue;
prepared from malto-oligosaccharide e.g. maltotriose, maltotetraose or
maltopentaose, which is prepared by partial starch hydrolysis using
acid, amylase or alpha-amylase
AN 1994-01419 BIOTECHDS
PI JP 05294837 9 Nov 1993

L49 ANSWER 101 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Production of bacteriostatic oligosaccharide
alginate for food preservative;
involves culturing an alginate-lyase-producing Vibrio sp in culture
medium containing sodium alginate and isolating the antibiotic
produced
AN 1994-01571 BIOTECHDS
PI JP 05252970 5 Oct 1993

L49 ANSWER 102 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI A method for the preparation of cello-oligosaccharide;
 cellulase pretreatment to remove beta-glucosidase activity
 AN 1993-10022 BIOTECHDS
 PI JP 05115293 14 May 1993

L49 ANSWER 103 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Fermentation accelerators containing oligosaccharides for meat products
 and manufacture of meat products with them
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 IN Shimamura, Seiichi; Tamura, Yoshitaka; Mizota, Teruhiko; Komuro, Akira
 AN 1993:515965 HCAPLUS
 DN 119:115965

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 05103631 | A | 19930427 | JP 1991-269693 | 19911017 |
| JP 2885554 | B2 | 19990426 | | |

L49 ANSWER 104 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Chitin oligosaccharides, chitin, or its partial degradation
 products as bactericides and fungicides
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 IN Shimai, Yoshuki; Tsukuda, Koji; Seino, Haruyoshi
 AN 1993:471245 HCAPLUS
 DN 119:71245

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 05092926 | A | 19930416 | JP 1991-99878 | 19910201 |

L49 ANSWER 105 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
 TI Production of brown algae decomposition prod. for oligosaccharide(s)
 production -
 by decomposing brown algae using enzymes produced by microorganisms
 belonging to genus Alteromonas
 PI JP 05030988 A 19930209 (199311)* JA 4[0]
 JP 3079183 B2 20000821 (200043) JA 5
 IN HIURA N; SATO R; TAKEDA T

L49 ANSWER 106 OF 204 MEDLINE on STN DUPLICATE 39
 TI Lipo-oligosaccharides of Rhizobium induce infection-related early nodulin
 gene expression in pea root hairs.
 SO The Plant journal : for cell and molecular biology, (1993 Oct) Vol. 4, No.
 4, pp. 727-33.
 Journal code: 9207397. ISSN: 0960-7412.
 AU Horvath B; Heidstra R; Lados M; Moerman M; Spaink H P; Prome J C; van
 Kammen A; Bisseling T
 AN 94073227 MEDLINE

L49 ANSWER 107 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Structural analysis of two oligosaccharide bisphosphates isolated from the
 lipopolysaccharide of a recombinant strain of Escherichia coli F515 (Re
 chemotype) expressing the genus-specific epitope of Chlamydia
 lipopolysaccharide
 SO European Journal of Biochemistry (1993), 214(3), 703-10
 CODEN: EJBCAI; ISSN: 0014-2956
 AU Holst, Otto; Broer, Wim; Thomas-Oates, Jane E.; Mamat, Uwe; Brade, Helmut
 AN 1993:535154 HCAPLUS
 DN 119:135154

L49 ANSWER 108 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
 on STN DUPLICATE 40
 TI CONTROL OF THE EXPRESSION OF BACTERIAL GENES INVOLVED IN SYMBIOTIC
 NITROGEN-FIXATION
 SO WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, (JUL 1993) Vol. 9, No. 4,

pp. 444-454.
ISSN: 0959-3993.

AU MEGIAS M (Reprint); FOLCH J L; SOUSA C
AN 1993:433801 SCISEARCH

L49 ANSWER 109 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 41

TI RHIZOBIAL LIPO-OLIGOSACCHARIDE SIGNALS AND THEIR ROLE IN PLANT
MORPHOGENESIS - ARE ANALOGOUS LIPOPHILIC CHITIN DERIVATIVES PRODUCED BY
THE PLANT

SO AUSTRALIAN JOURNAL OF PLANT PHYSIOLOGY, (1993) Vol. 20, No. 4-5, pp.
381-392.
ISSN: 0310-7841.

AU SPAINK H P (Reprint); WIJFJES A H M; VANVLIET T B; KIJNE J W; LUGTENBERG B
J J
AN 1993:639788 SCISEARCH

L49 ANSWER 110 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Effects of biosynthetic polysaccharides and oligosaccharides on intestinal
bacteria

SO Shipin Kexue (Taipei) (1993), 20(2), 187-97
CODEN: SPKHE6; ISSN: 0253-8997

AU Yang, Yaching; Tsiang, Fonglin; Chiu, Chihwei P.; Tsai, Chingmin E.
AN 1995:281446 HCAPLUS
DN 122:51001

L49 ANSWER 111 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Noncellulolytic fungal beta-glucanases: their physiology and regulation;
beta-glucanase occurrence, biosynthesis, mechanism of action,
function, purification, characterization and potential applications; a
review

SO Enzyme Microb.Technol.; (1993) 15, 3, 178-92
CODEN: EMTED2

AU Pitson S M; Seviour R J; McDougall B M
AN 1993-04086 BIOTECHDS

L49 ANSWER 112 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Development of enzymes for chemoenzymatic synthesis;
oligosaccharide and peptide preparation; characterization of
enzyme-catalyzed reactions, enzyme gene cloning and enzyme
engineering; a review (conference paper)

SO Chimia; (1993) 47, 4, 127-32
CODEN: CHIMAD

AU Wong C H
AN 1993-14752 BIOTECHDS

L49 ANSWER 113 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Determination of the structures of three bacterial polysaccharides and
synthesis and use of new spacers for glycoconjugate formation

SO Chemical Communications (Stockholm University) (1993), (3), 32 pp.
CODEN: CCUSBN; ISSN: 0366-5607

AU Anderson, Mats
AN 1993:581091 HCAPLUS
DN 119:181091

L49 ANSWER 114 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Development of functional food-materials utilizing enzymes and
microorganisms. Development of technology producing
oligosaccharides

SO Kenkyu Hokoku - Fukuoka-ken Kogyo Gijutsu Senta (1993), Volume Date 1992,
3, 7-12
CODEN: KFKSEH; ISSN: 0916-8230

AU Furuta, Masanori; Nomiyama, Syuji; Ohta, Shumei
AN 1995:110922 HCAPLUS
DN 122:54564

L49 ANSWER 115 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Galacto-oligosaccharide and gluconic acid preparation;
from lactose using glucose-oxidase from *Sterigmatomyces elviae*,
Sirobasidium mugnum, *Rhodotorula minuta*, etc.

AN 1992-10996 BIOTECHDS
PI JP 04144691 19 May 1992

L49 ANSWER 116 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Increased utilization of fed substrates during microbial product
biosynthesis

SO Ger. (East), 9 pp.
CODEN: GEXXA8

IN Christner, Arnulf; Helmke, Claus; Mellinger, Uwe; Heinig, Klaus
AN 1992:233908 HCAPLUS

DN 116:233908

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| DD 298282 | A5 | 19920213 | DD 1988-323961 | 19881227 |

L49 ANSWER 117 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Preparation of inulinase for preparation of inulo-oligosaccharide - by
culturing
inulinase producing microbe in culture medium producing enzyme having high
end type activity

PI JP 04190789 A 19920709 (199234)* JA 4[0]

IN FUKUOKA A; SATO K; TAKAHASHI S; TAMAYA H; WATANABE M; YOSHIMI F

L49 ANSWER 118 OF 204 MEDLINE on STN DUPLICATE 43

TI Isolation and characterization of *Escherichia coli* mutants
blocked in production of membrane-derived
oligosaccharides.

SO Journal of bacteriology, (1992 Jul) Vol. 174, No. 14, pp. 4856-9.
Journal code: 2985120R. ISSN: 0021-9193.

AU Weissborn A C; Rumley M K; Kennedy E P
AN 92325085 MEDLINE

L49 ANSWER 119 OF 204 BIOTECHNO COPYRIGHT 2008 Elsevier Science B.V. on STN
TI Mucin degradation in the human colon: Production of sialidase, sialate O-
acetylersterase, N-acetylneuraminate lyase, arylesterase, and
glycosulfatase activities by strains of fecal bacteria

SO Infection and Immunity, (1992), 60/10 (3971-3978)
CODEN: INFIBR ISSN: 0019-9567

AU Corfield A.P.; Wagner S.A.; Clamp J.R.; Kriaris M.S.; Hoskins L.C.
AN 1992:22297461 BIOTECHNO

L49 ANSWER 120 OF 204 MEDLINE on STN DUPLICATE 44

TI Rhizobial lipo-oligosaccharides: answers and questions.

SO Plant molecular biology, (1992 Dec) Vol. 20, No. 5, pp. 977-86. Ref: 51
Journal code: 9106343. ISSN: 0167-4412.

AU Spaink H P
AN 93099248 MEDLINE

L49 ANSWER 121 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Synthesis of oligosaccharides related to plant,
vertebrate, and bacterial cell-wall glycans

SO Carbohydrates (1992), 188-227. Editor(s): Ogura, Haruo; Hasegawa, Akira;
Suami, Tetsuo. Publisher: Kodansha, Tokyo, Japan.

CODEN: 60URAP

AU Pozsgay, Vince

AN 1995:336830 HCAPLUS

DN 122:161053

L49 ANSWER 122 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Oligosaccharides production from natural

SO polysaccharides by microbial depolymerizing enzymes
Kagaku to Seibutsu (1992), 30(3), 170-5
CODEN: KASEAA; ISSN: 0453-073X
AU Tomita, Fusao; Yokota, Atsushi
AN 1992:233785 HCAPLUS
DN 116:233785

L49 ANSWER 123 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Development of functional food materials utilizing enzymes and microorganisms. Characteristics of the enzyme for production of oligosaccharides
SO Kenkyu Hokoku - Fukuoka-ken Kogyo Gijutsu Senta (1992), Volume Date 1991, 2, 95-100
CODEN: KFKSEH; ISSN: 0916-8230
AU Furuta, Masanori; Takada, Yasuyoshi; Suenaga, Hikaru; Ohta, Shumei
AN 1993:624730 HCAPLUS
DN 119:224730

L49 ANSWER 124 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Cloning of *Bacillus licheniformis* amylase gene and its application to synthesis of branched oligosaccharides;
oligosaccharide preparation and starch liquefaction using panose-forming amylase and recombinant thermostable alpha-amylase expressed in *Escherichia coli* (conference paper)
SO Biochem.Eng.2001; (1992) 80-83
AU Park K H; Kim I C; Kim J R; Seo B C; Choi Y D; Lee D S
AN 1993-04106 BIOTECHDS

L49 ANSWER 125 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Isolation and characterization of alkalophilic bacteria that degrade soybean galactan;
galacto-oligosaccharide production using galactanase-producing *Bacillus* spp. isolated from soil
SO Agric.Biol.Chem.; (1991) 55, 5, 1399-400
CODEN: ABCHA6
AU Tsumura K; Hashimoto Y; Akiba T; Horikoshi K
AN 1991-09587 BIOTECHDS

L49 ANSWER 126 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 45
TI STUDIES ON ENZYMATIC PRODUCTION OF OLIGOSACCHARIDES .6. MALTOTRIOSE-PRODUCING AMYLASE FROM MICROBACTERIUM -IMPERIALE
SO AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (MAR 1991) Vol. 55, No. 3, pp. 687-692.
ISSN: 0002-1369.
AU TAKASAKI Y (Reprint); KITAJIMA M; TSURUTA T; NONOGUCHI M; HAYASHI S; IMADA K
AN 1991:218402 SCISEARCH

L49 ANSWER 127 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 46
TI EFFECT OF LIPOPOLYSACCHARIDE CORE SYNTHESIS MUTATIONS ON THE PRODUCTION OF VIBRIO-CHOLERAES O-ANTIGEN IN ESCHERICHIA-COLI K-12
SO FEMS MICROBIOLOGY LETTERS, (15 AUG 1991) Vol. 82, No. 3, pp. 279-286.
ISSN: 0378-1097.
AU MORONA R (Reprint); BROWN M H; YEADON J; HEUZENROEDER M W; MANNING P A
AN 1991:520863 SCISEARCH

L49 ANSWER 128 OF 204 MEDLINE on STN
TI Effect of lipopolysaccharide core synthesis mutations on the production of *Vibrio cholerae* O-antigen in *Escherichia coli* K-12.
SO FEMS microbiology letters, (1991 Aug 15) Vol. 66, No. 3, pp. 279-85.
Journal code: 7705721. ISSN: 0378-1097.
AU Morona R; Brown M H; Yeadon J; Heuzenroeder M W; Manning P A

AN 92120466 MEDLINE

L49 ANSWER 129 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of fructan and oligosaccharides by
microbial fructosyltransferases
SO Denpun Kagaku (1991), 38(2), 217-22
CODEN: DPNKAV; ISSN: 0021-5406
AU Iizuka, Masaru; Tanaka, Toshio; Yamamoto, Satoru; Yoneda, Yukio; Itokawa,
Shigekazu; Hiyama, Masato; Ito, Kazuo; Furuichi, Kimiaki; Minamiura,
Noshi; Yamamoto, Takehiko
AN 1991:678091 HCAPLUS
DN 115:278091

L49 ANSWER 130 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Degradation and utilization of xylan by a genetically modified
Bacteroides thetaiotaomicron and in combination with selected ruminal
bacteria;
 Bacteroides ruminicola recombinant endo-1,4-beta-D-xylanase
 production; hemicellulose, xylan hydrolysis, xylo-
 oligosaccharide end-product utilization by rumen
 bacterium (conference abstract)
SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1991) 91 Meet., 202
AU Cotta M A; Whitehead T R
AN 1991-11885 BIOTECHDS

L49 ANSWER 131 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Apparatus for producing immobilized cell;
 cell immobilization apparatus for cell mixing with support and
 pressurized injection through needle for bead formation; potential
 application fructo-oligosaccharide production
AN 1991-15095 BIOTECHDS
PI KR 9005528 31 Jul 1990

L49 ANSWER 132 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Galacto-oligosaccharide production - by allowing microbe of Rhodotorula,
sterigmatomyces or sirobasidium to act on lactose to generate
galacto-oligo-saccharide and extracting it
PI JP 02072890 A 19900313 (199016)* JA
JP 2600874 B2 19970416 (199720) JA 3[0]
IN ONISHI I; YOKOZEKI K

L49 ANSWER 133 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI SYNTHESIS OF OLIGOSACCHARIDES RELATED TO
BACTERIAL O-ANTIGENS.
SO Top. Curr. Chem., (1990) pp. 1-38. THIEM, J. (ED.). TOPICS IN CURRENT
CHEMISTRY, VOL. 154. CARBOHYDRATE CHEMISTRY. VII+334P. SPRINGER-VERLAG:
BERLIN, WEST GERMANY; NEW YORK, NEW YORK, USA. ILLUS.
Publisher: Series: Topics in Current Chemistry.
CODEN: TPCCAQ. ISSN: 0340-1022. ISBN: 3-540-51576-3, 0-387-51576-3.
AU BUNDLE D R [Reprint author]
AN 1990:401311 BIOSIS

L49 ANSWER 134 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Cloning and expression in Escherichia coli of a Haemophilus influenzae
type b lipooligosaccharide synthesis gene(s) that encodes a
2-keto-3-deoxyoctulosonic acid epitope
SO Infection and Immunity (1990), 58(6), 1558-64
CODEN: INFIBR; ISSN: 0019-9567
AU Spinola, Stanley M.; Kwaik, Yousef Abu; Lesse, Alan J.; Campagnari,
Anthony A.; Apicella, Michael A.
AN 1990:527265 HCAPLUS
DN 113:127265

L49 ANSWER 135 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Synthesis of oligosaccharides by use of
 microbial enzymes
 SO Denpun Kagaku (1990), 37(2), 59-67
 CODEN: DPNKAV; ISSN: 0021-5406
 AU Kitahata, Sumio
 AN 1990:570336 HCAPLUS
 DN 113:170336

L49 ANSWER 136 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Biotechnological and chemical routes to intermediate synthesis products
 from sucrose
 SO Zuckerindustrie (Berlin, Germany) (1990), 115(1), 20-4
 CODEN: ZUCKDI; ISSN: 0344-8657
 AU Buchholz, Klaus; Kunz, Markwart
 AN 1990:404553 HCAPLUS
 DN 113:4553

L49 ANSWER 137 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
 on STN DUPLICATE 47
 TI SYNTHESIS OF OLIGOSACCHARIDES RELATED TO
 BACTERIAL O-ANTIGENS
 SO TOPICS IN CURRENT CHEMISTRY, (1990) Vol. 154, pp. 1-37.
 ISSN: 0342-6793.
 AU BUNDLE D R (Reprint)
 AN 1990:480250 SCISEARCH

L49 ANSWER 138 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 48
 TI Plant culture with growth accelerators prepared from polysaccharides of
 microbial cultures
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 IN Adachi, Takashi; Ishii, Takafumi; Hidaka, Hidemasa
 AN 1990:72298 HCAPLUS
 DN 112:72298

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI JP 01079101 | A | 19890324 | JP 1987-234755 | 19870921 |
| JP 07106966 | B | 19951115 | | |

L49 ANSWER 139 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
 TI Production of oligosaccharide using dextranase
 producer bacteria e.g. Streptococcus bovis;
 culture medium effect
 AN 1989-12709 BIOTECHDS
 PI JP 01148195 9 Jun 1989

L49 ANSWER 140 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
 TI Enzymatic production of cello:oligosaccharide - involves removing inhibition
 of prod. using ultrafiltration of culture medium containing Cellulibrio
 microorganism
 PI JP 01256394 A 19891012 (198947)* JA 4[0]
 US 4908311 A 19900313 (199016) EN
 JP 05083238 B 19931125 (199350) JA 3
 IN KAINUMA K; SASAKI T; TANIGUCHI H

L49 ANSWER 141 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
 TI Enzymic preparation of N-acetyl:chito-oligosaccharide - by culturing microbe
 of trichoderma which produces chitinase, etc.
 PI JP 01174383 A 19890710 (198933)* JA 7[0]
 JP 07089922 B2 19951004 (199544) JA 5[0]
 IN HAGINO H; USUI Y

L49 ANSWER 142 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI MECHANISMS INVOLVED IN WOUND HEALING D GLUCOSE POLYSACCHARIDE ACTION.

SO FASEB Journal, (1989) Vol. 3, No. 4, pp. A1251.
Meeting Info.: 73RD ANNUAL MEETING OF THE FEDERATION OF AMERICAN SOCIETIES
FOR EXPERIMENTAL BIOLOGY, NEW ORLEANS, LOUISIANA, USA, MARCH 19-23, 1989.
FASEB (FED AM SOC EXP BIOL) J.
CODEN: FAJOEC. ISSN: 0892-6638.

AU SILVETTI A N [Reprint author]
AN 1989:324650 BIOSIS

L49 ANSWER 143 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Production of galactooligosaccharides by microbial enzymes
SO Kagaku to Kogyo (Osaka, Japan) (1989), 63(10), 407-15
CODEN: KKGOAG; ISSN: 0368-5918
AU Nakano, Hirofumi
AN 1990:34334 HCAPLUS
DN 112:34334

L49 ANSWER 144 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of oligosaccharides by microbial
enzymes
SO .Kagaku to Kogyo (Osaka, Japan) (1989), 63(4), 161-9
CODEN: KKGOAG; ISSN: 0368-5918
AU Kitahata, Sumio
AN 1989:493061 HCAPLUS
DN 111:93061

L49 ANSWER 145 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN
TI MICROBIAL ENZYMES THAT PRODUCE SPECIFIC
OLIGOSACCHARIDES
SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (10 SEP 1989) Vol.
198, pp. 42-CARB.
ISSN: 0065-7727.
AU PRIEST F G
AN 1990:347649 SCISEARCH

L49 ANSWER 146 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Application of soybean oligosaccharides
SO New Food Industry (1989), 31(6), 33-8
CODEN: NYFIAM; ISSN: 0547-0277
AU Kawaguchi, Hiroshi
AN 1989:532648 HCAPLUS
DN 111:132648

L49 ANSWER 147 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Microbial enzymes that produce specific
oligosaccharides;
oligosaccharide preparation by starch saccharification (conference
abstract)
SO Abstr.Pap.Am.Chem.Soc.; (1989) 198 Meet., CARB42
CODEN: ACSRAL
AU Priest F G
AN 1990-00411 BIOTECHDS

L49 ANSWER 148 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Malto-oligosaccharide-forming amylase production - by culturing Bacillus
bacteria producing amylase and recovering malto-
oligosaccharide
PI JP 63237786 A 19881004 (198845)* JA 9[5]
JP 2559400 B2 19961204 (199702) JA 7[0]
IN ISHII Y; KIMURA K; TSUJIOKA K

L49 ANSWER 149 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Lactic acid bacteria breeding accelerator - contains chitosan
oligosaccharide, and is useful for production of dairy products
PI JP 63098379 A 19880428 (198823)* JA 9[8]

JP 04063674 B 19921012 (199245) JA 9
IN IZUME M; TAIHO A; UCHIDA Y

L49 ANSWER 150 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Gene relating to malto-oligo saccharide - and corresp. recombinant
plasmid and recombinant microorganism
PI JP 63049082 A 19880301 (198814)* JA 13[8]
JP 07014346 B2 19950222 (199512) JA 14
IN ISHII Y; KIMURA K; SUZUKI S; TSUKAMOTO A; YAMANE K

L49 ANSWER 151 OF 204 MEDLINE on STN DUPLICATE 50
TI Degradation of human intestinal glycosphingolipids by extracellular
glycosidases from mucin-degrading bacteria of the human fecal flora.
SO The Journal of biological chemistry, (1988 Aug 5) Vol. 263, No. 22, pp.
10790-8.
Journal code: 2985121R. ISSN: 0021-9258.
AU Larson G; Falk P; Hoskins L C
AN 88273201 MEDLINE

L49 ANSWER 152 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Selection of microorganisms which produce raw-starch degrading enzymes;
isolation of *Bacillus*, *Aspergillus* and *Hansenula* spp. producing
alpha-amylase and/or glucoamylase
SO Appl.Microbiol.Biotechnol.; (1988) 27, 5-6, 443-46
CODEN: EJABDD
AU Bergmann F W; Abe J; Hizukuri S
AN 1988-07243 BIOTECHDS

L49 ANSWER 153 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Transglycosylase and hydrolase activities of carbohydrases;
e.g. lysozyme, alpha-amylase, dextranase and glucoamylase; a review
SO Prikl.Biokhim.Mikrobiol.; (1988) 24, 3, 291-304
CODEN: PBMIAK
AU Maksimov V I
AN 1988-08210 BIOTECHDS

L49 ANSWER 154 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of functional oligosaccharides by
microbial enzymes
SO Gekkan Fudo Kemikaru (1988), 4(6), 70-4
CODEN: GFKEEX; ISSN: 0911-2286
AU Kitahata, Sumio
AN 1988:547881 HCAPLUS
DN 109:147881

L49 ANSWER 155 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 52
TI SPECTROSCOPIC ANALYSIS OF THE OLIGOSACCHARIDES PRODUCED
BY BACTERIOPHAGE-BORNE ENZYME ACTION ON KLEBSIELLA-K36
POLYSACCHARIDE
SO SOUTH AFRICAN JOURNAL OF CHEMISTRY, (JUN 1988) Vol. 41, No. 2, pp. 42-47.
ISSN: 0379-4350.
AU RAVENSCROFT N (Reprint); JACKSON G E; JOAO H; STEPHEN A M
AN 1988:403205 SCISEARCH

L49 ANSWER 156 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI The identification of lipopolysaccharide producing microorganisms;
hybridoma construction for monoclonal antibody secretion, application
for Gram-negative bacterium detection
AN 1987-11961 BIOTECHDS
PI US 4683196 28 Jul 1987

L49 ANSWER 157 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Foliar liquid fertilizers from wastewaters
SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF
AN 1990:6719 HCAPLUS
DN 112:6719
PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 62283906 A 19871209 JP 1986-124865 19860530

L49 ANSWER 158 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Manufacture of chondroitinsulfuric acid hydrolysates by immobilized
bacteria

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

IN Kimura, Hikari; Murata, Kosaku; Nonaka, Michio; Sato, Nobuyuki

AN 1987:552866 HCAPLUS

DN 107:152866

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 62130696 A 19870612 JP 1985-270745 19851203
JP 05058716 B 19930827

L49 ANSWER 159 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN

TI Malto:pentose preparation - by acid hydrolysis of cyclodextrin then treatment
with amylase derived from Bacillus spp.

PI JP 62208294 A 19870912 (198742)* JA 4 [0]

IN YAZAKI A

L49 ANSWER 160 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI The synthesis of the heptose region of the gram-negative bacterial core
oligosaccharides

SO Tetrahedron Letters (1987), 28(14), 1569-72

CODEN: TELEAY; ISSN: 0040-4039

AU Dziewiszczek, Krzysztof; Banaszek, Anna; Zamojski, Aleksander

AN 1987:637165 HCAPLUS

DN 107:237165

L49 ANSWER 161 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 53

TI METHYLATION ANALYSIS OF THE OLIGOSACCHARIDES PRODUCED
BY BACTERIOPHAGE-BORNE ENZYME ACTION ON KLEBSIELLA K-36
POLYSACCHARIDE

SO SOUTH AFRICAN JOURNAL OF SCIENCE, (SEP 1987) Vol. 83, No. 9, pp. 560-560.
ISSN: 0038-2353.

AU DUTTON G G S (Reprint); MACKIE K L; MERRIFIELD E H; RAVENSCROFT N; STEPHEN
A M

AN 1987:635651 SCISEARCH

L49 ANSWER 162 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Commercial polysaccharides: recent trends and developments;
polysaccharide production; a review (conference paper)

SO Prog.Biotechnol.; (1987) 3, 311-35

AU Yalpani M; Sandford P A

AN 1989-00990 BIOTECHDS

L49 ANSWER 163 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI A novel lyase acting on gellan gum;
produced by Pseudomonas elodea, enzyme characterization (conference
abstract)

SO Eur.Congr.Biotechnol.; (1987) Vol.2, 176

AU Schmedding D J M; van den Dool R T M; Kerkenaar A

AN 1989-07786 BIOTECHDS

L49 ANSWER 164 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 54

TI The identification of oral microbial lectins by cell affinity
chromatography.

SO FEMS MICROBIOL. LETT., (1987) vol. 40, no. 1, pp. 123-127.

AU Murray, P.A.; Materese, V.; Hoover, C.I.; Winkler, J.R.
AN 87:69325 LIFESCI

L49 ANSWER 165 OF 204 MEDLINE on STN DUPLICATE 55
TI Genetic and biochemical analysis of *Shigella dysenteriae* 1 O antigen polysaccharide biosynthesis in *Escherichia coli* K-12: 9 kb plasmid of *S. dysenteriae* 1 determines addition of a galactose residue to the lipopolysaccharide core.
SO Microbial pathogenesis, (1986 Jun) Vol. 1, No. 3, pp. 299-306.
Journal code: 8606191. ISSN: 0882-4010.
AU Sturm S; Jann B; Jann K; Fortnagel P; Timmis K N
AN 89237814 MEDLINE

L49 ANSWER 166 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI A method for producing fructo-oligosaccharide by immobilized microorganism;
sucrose conversion to inulin-type compounds using immobilized *Aureobasidium* sp.
AN 1985-06600 BIOTECHDS
PI JP 60041497 5 Mar 1985

L49 ANSWER 167 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Fructo-oligosaccharide production - by fermentation with an *Aureobasidium* microorganism
PI JP 60027395 A 19850212 (198512)* JA 11[9]
JP 05004071 B 19930119 (199306) JA 13
IN SHINOHARA S; UENO H

L49 ANSWER 168 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 57
TI FORMATION OF OLIGOSACCHARIDES DURING HYDROLYSIS OF LACTOSE IN MILK USING BETA GALACTOSIDASE FROM *BACILLUS-CIRCULANS*.
SO Journal of Food Science, (1985) Vol. 50, No. 6, pp. 1602-1606.
CODEN: JFDSAZ. ISSN: 0022-1147.
AU MOZAFFAR Z [Reprint author]; NAKANISHI K; MATSUNO R
AN 1986:131857 BIOSIS

L49 ANSWER 169 OF 204 MEDLINE on STN DUPLICATE 58
TI Mutant of *Escherichia coli* deficient in osmoregulation of periplasmic oligosaccharide synthesis.
SO Journal of bacteriology, (1985 Mar) Vol. 161, No. 3, pp. 1049-53.
Journal code: 2985120R. ISSN: 0021-9193.
AU Clark D P
AN 85130782 MEDLINE

L49 ANSWER 170 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN
TI Novel oligosaccharides obtained by bacteriophage degradation of the polysaccharide from *Klebsiella* serotype K26
SO Carbohydrate Research (1985), 144(2), 251-62
CODEN: CRBRAT; ISSN: 0008-6215
AU Di Fabio, Jose L.; Karunaratne, D. Nedra; Dutton, Guy G. S.
AN 1986:497844 HCPLUS
DN 105:97844

L49 ANSWER 171 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI Gelling agent of non-branched polygalactan and metallic oxides; especially aluminum silicon and titanium oxides is used to replace agar in microorganism culture medium
AN 1984-11500 BIOTECHDS
PI EP 118376 12 Sep 1984

L49 ANSWER 172 OF 204 MEDLINE on STN DUPLICATE 59
TI Regulation of the synthesis of membrane-derived oligosaccharides in *Escherichia coli*. Assay of phosphoglycerol transferase I in vivo.

SO The Journal of biological chemistry, (1984 Jul 10) Vol. 259, No. 13, pp. 8388-93.
Journal code: 2985121R. ISSN: 0021-9258.

AU Bohin J P; Kennedy E P
AN 84239819 MEDLINE

L49 ANSWER 173 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 60

TI SYNTHESIS OF MORAPRENYL PYROPHOSPHATE OLIGOSACCHARIDES - POSSIBLE BIOSYNTHETIC PRECURSORS OF ESCHERICHIA-COLI 08 AND 09 O-ANTIGENS

SO BIOORGANICHESKAYA KHIMIYA, (1984) Vol. 10, No. 7, pp. 946-953.
ISSN: 0132-3423.

AU TORGOV V I (Reprint); SHIBAEV V N; KOCHETKOV N K
AN 1984:520303 SCISEARCH

L49 ANSWER 174 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN

TI Synthesis of repeating units of Escherichia coli capsular polysaccharides containing D-ribose and 3-deoxy-D-manno-2-octulosonic acid (KDO)

SO Carbohydrate Research (1984), 132(2), 261-74
CODEN: CRBRAT; ISSN: 0008-6215

AU Kosma, Paul; Schulz, Gerhard; Unger, Frank M.
AN 1985:62532 HCPLUS
DN 102:62532
OREF 102:9825a,9828a

L49 ANSWER 175 OF 204 HCPLUS COPYRIGHT 2008 ACS on STN

TI Mucin degradation by enteric bacteria: ecological aspects and implications for bacterial attachment to gut mucosa

SO Attachment Org. Gut Mucosa, [Pap. Res. Workshop] (1984), Volume 2, 51-67.
Editor(s): Boedeker, Edgar C. Publisher: CRC, Boca Raton, Fla.
CODEN: 52SOA7

AU Hoskins, Lansing C.
AN 1985:594094 HCPLUS
DN 103:194094
OREF 103:31237a,31240a

L49 ANSWER 176 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN

TI Oligosaccharide preparation - by treating starch, amylase or amylopectin (hydrolysate) with amylase obtd. from Bacillus e.g. circulans G 4,5 FERM p-6237

PI JP 58170492 A 19831007 (198346)* JA 7[0]
JP 59004119 B 19840127 (198408) JA
IN TAKASAKI Y

L49 ANSWER 177 OF 204 MEDLINE on STN DUPLICATE 61

TI Appearance of monoglyceride and triglyceride in the cell envelope of Escherichia coli mutants defective in diglyceride kinase.

SO The Journal of biological chemistry, (1983 Jul 10) Vol. 258, No. 13, pp. 8068-73.
Journal code: 2985121R. ISSN: 0021-9258.

AU Rotering H; Raetz C R
AN 83238407 MEDLINE

L49 ANSWER 178 OF 204 MEDLINE on STN DUPLICATE 62

TI Structure of the core regions in lipopolysaccharides from Escherichia coli K12 W2252-11U-, the Ter-15 mutant, and Ter-15 (F'-lac) and Ter-15 (F+) cells.

SO Biochimica et biophysica acta, (1983 Apr 20) Vol. 756, No. 3, pp. 335-40.
Journal code: 0217513. ISSN: 0006-3002.

AU Ohkawa T
AN 83153817 MEDLINE

L49 ANSWER 179 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Saccharides as physiologically active hypoglycemic (antidiabetic) agents;

derived from microbially-produced polysaccharides
and oligosaccharides

AN 1982-03991 BIOTECHDS
PI JP 57146713 10 Sep 1982

L49 ANSWER 180 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Solubilisation, modification and hydrolysis of carbohydrate(s) - by
treatment with aqueous acid and magnesium, calcium or lithium salt
PI EP 44622 A 19820127 (198205)* EN 51
 R: AT CH DE FR GB LI SE
 NO 8102358 A 19820208 (198209) NO
 BR 8104434 A 19820330 (198215) PT
 JP 57048997 A 19820320 (198217) JA
 ZA 8104472 A 19820705 (198238) EN
 EP 44622 B 19850821 (198534) EN
 R: AT CH DE FR GB LI SE
 CA 1192541 A 19850827 (198539) # EN
 DE 3171911 G 19850926 (198540) DE
 SU 1318171 A 19870615 (198805) RU
 US 4713118 A 19871215 (198806) EN
 US 4787939 A 19881129 (198850) EN
 JP 01033113 B 19890711 (198931) JA

IN BARKER S A; SOMERS P J

L49 ANSWER 181 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Enzyme mixtures for production of oligosaccharides
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
AN 1981:478483 HCAPLUS
DN 95:78483
OREF 95:13291a,13294a

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI JP 56051982 | A | 19810509 | JP 1979-127979 | 19791005 |

L49 ANSWER 182 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
DUPLICATE 63
TI COMPARATIVE STUDY OF HOST CAPSULE DEPOLYMERASES ASSOCIATED WITH KLEBSIELLA
BACTERIO PHAGES.
SO Virology, (1981) Vol. 113, No. 1, pp. 363-378.
CODEN: VIRLAX. ISSN: 0042-6822.
AU RIEGER-HUG D [Reprint author]; STIRM S
AN 1982:154584 BIOSIS

L49 ANSWER 183 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN
TI Comparative Study of Host Capsule Depolymerases Associated With Klebsiella
Bacteriophages.
SO VIROLOGY., (1981) vol. 113, no. 1, pp. 363-378.
AU Stirm, S.; Rieger-Hug, D.
AN 81:33613 LIFESCI

L49 ANSWER 184 OF 204 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights
reserved on STN
TI Comparative study of host capsule depolymerases associated with Klebsiella
bacteriophages.
SO Behavioural Brain Research, (1981) Vol. 3, No. 2, pp. 363-378.
ISSN: 0166-4328 CODEN: BBREDI
AU Rieger-Hug D.; Stirm S.
AN 1981201970 EMBASE

L49 ANSWER 185 OF 204 MEDLINE on STN DUPLICATE 64
TI Synthesis of 2-methyl-[2-acetamido-4-O-acetyl-6-O-benzyl-3-O-(2-butenyl)-
1,2-dideoxy-alpha-D-glucopyranol]-[2,1-d]-2-oxazoline, a versatile
intermediate for the synthesis of complex
oligosaccharides of bacterial cell-wall, human milk, and

blood-group substances.

SO Carbohydrate research, (1981 Mar 2) Vol. 89, No. 2, pp. 279-88.
Journal code: 0043535. ISSN: 0008-6215.

AU Durette P L; Meitzner E P
AN 81210068 MEDLINE

L49 ANSWER 186 OF 204 MEDLINE on STN DUPLICATE 65
TI Mucin degradation in human colon ecosystems. Evidence for the existence and role of bacterial subpopulations producing glycosidases as extracellular enzymes.

SO The Journal of clinical investigation, (1981 Jan) Vol. 67, No. 1, pp. 163-72.
Journal code: 7802877. ISSN: 0021-9738.

AU Hoskins L C; Boulding E T
AN 81094427 MEDLINE

L49 ANSWER 187 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Galactose-containing oligosaccharide A preparation - by cultivating suitable microorganism of genus Bacillus

PI JP 55108887 A 19800821 (198040)* JA
JP 56047190 B 19811107 (198149) JA

IN KATO T; SAWAZAKI T

L49 ANSWER 188 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
TI Bifido:bacterium multiplication-promoting agent - containing oligosaccharide prepared by treating lactose with beta-glucosidase produced by Aspergillus oryzae

PI JP 55104885 A 19800811 (198039)* JA
GB 2080330 A 19820203 (198205)# EN
DE 3027731 A 19820204 (198206)# DE
FR 2488137 A 19820212 (198211)# FR
NL 8004210 A 19820216 (198211)# NL
BR 8004937 A 19820406 (198216)# PT
DE 3027731 C 19820722 (198230)# DE
JP 58020266 B 19830422 (198320) JA
US 4435389 A 19840306 (198412)# EN
CA 1165706 A 19840417 (198420)# EN
GB 2080330 B 19841003 (198440)# EN
JP 35041449 B 19850305 (198515) JA
CH 649002 A 19850430 (198521)# DE
KR 8600065 A 19860206 (198640) KO
NL 181115 B 19870116 (198706)# NL
JP 63018457 B 19880419 (198819) JA
IT 1141607 B 19861001 (198826) IT

IN KAMIYAMA S; KURODA A; MATSUMOTO K; MUTAI M; TAKAHASHI T; TANAKA R; TERAJIMA T; TERASHIMA T; UEYAMA S

L49 ANSWER 189 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of α -L-Rhap-(1 \rightarrow 3)-L-Rha and α -L-Rhap-(1 \rightarrow 3)- α -L-Rhap-(1 \rightarrow 3)-L-Rha building stones of bacterial polysaccharides

SO Symp. Pap. - IUPAC Int. Symp. Chem. Nat. Prod., 11th (1978), Volume 3, 73-6
CODEN: 41RTAX

AU Pozsgay, Vince; Nanasi, Pal
AN 1980:42276 HCAPLUS
DN 92:42276
OREF 92:7065a,7068a

L49 ANSWER 190 OF 204 MEDLINE on STN DUPLICATE 66
TI Relation of turnover of membrane phospholipids to synthesis of membrane-derived oligosaccharides of Escherichia coli.

SO The Journal of biological chemistry, (1977 Jun 25) Vol. 252, No. 12, pp. 4250-5.
Journal code: 2985121R. ISSN: 0021-9258.

AU Schulman H; Kennedy E P
AN 77187939 MEDLINE

L49 ANSWER 191 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

TI ANTIGEN DEGRADATION IN HUMAN COLON ECOSYSTEMS HOSTS ABO BLOOD TYPE INFLUENCES ENTERIC BACTERIAL DEGRADATION OF A CELL SURFACE ANTIGEN ON ESCHERICHIA-COLI O-86.

SO Gastroenterology, (1977) Vol. 73, No. 1, pp. 37-41.
CODEN: GASTAB. ISSN: 0016-5085.

AU CROMWELL C L [Reprint author]; HOSKINS L C
AN 1978:140610 BIOSIS

L49 ANSWER 192 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Oligosaccharides
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF

IN Okada, Shigetaka; Tsuyama, Naoto; Mitsuhashi, Masakazu; Ogasawara, Junsuke
AN 1974:131677 HCAPLUS
DN 80:131677
OREF 80:21245a,21248a

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI JP 48098093 | A | 19731213 | JP 1972-31619 | 19720331 |
| JP 56004238 | B | 19810129 | | |

L49 ANSWER 193 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Interference with bacterial cell wall synthesis by oligosaccharide antibiotics
SO Bollettino - Societa Italiana di Biologia Sperimentale (1970), 46(5), 233-7
CODEN: BSIBAC; ISSN: 0037-8771

AU Bertazzoni, E.; Berti, Tito
AN 1970:506481 HCAPLUS
DN 73:106481
OREF 73:17327a,17332a

L49 ANSWER 194 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI In vitro synthesis of oligosaccharides by three "fruit rot" fungi
SO Proceedings - Indian Academy of Sciences, Section B (1970), 71(4), 171-6
CODEN: PISBAA; ISSN: 0370-0097

AU Kapoor, I. J.; Tandon, Ram N.
AN 1970:484877 HCAPLUS
DN 73:84877
OREF 73:13859a,13862a

L49 ANSWER 195 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Decomposition products of enzymic starch hydrolysis
SO Proceedings of the Annual Congress - South African Sugar Technologists' Association (1970), 44, 94-7
CODEN: PSATAA; ISSN: 0373-045X

AU Bruijn, J.
AN 1971:553165 HCAPLUS
DN 75:153165
OREF 75:24153a,24156a

L49 ANSWER 196 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Synthesis of oligosaccharides by growing culture of Leuconostoc mesenteroides. IV. Oligosaccharide formation in the presence of various types of glucobioses as acceptors
SO Agricultural and Biological Chemistry (1969), 33(9), 1295-300
CODEN: ABCHA6; ISSN: 0002-1369

AU Yamauchi, Fumio; Ohwada, Yuji
AN 1969:488712 HCAPLUS
DN 71:88712

OREF 71:16479a,16482a

L49 ANSWER 197 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Quantitative chromatography of homologous glucose oligomers and other
saccharides using polyacrylamide gel
SO Journal of Chromatography (1969), 42(4), 476-84
CODEN: JOCRAM; ISSN: 0021-9673
AU John, Michael; Trenel, Goetz; Dellweg, Hanswerner
AN 1969:488266 HCAPLUS
DN 71:88266
OREF 71:16409a,16412a

L49 ANSWER 198 OF 204 MEDLINE on STN DUPLICATE 67
TI Novel heparin degradation products. Isolation and characterization of
novel disaccharides and oligosaccharides produced from
heparin by bacterial degradation.
SO The Biochemical journal, (1968 Jul) Vol. 108, No. 4, pp. 647-54.
Journal code: 2984726R. ISSN: 0264-6021.
AU Dietrich C P
AN 68361894 MEDLINE

L49 ANSWER 199 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Fundamental processes in the synthesis of oligo- and polysaccharides by
microorganisms. I. Synthesis of oligosaccharides
II. Synthesis of polysaccharides
SO Mikrobiol. Zh., Akad. Nauk Ukr. RSR (1961), 23(No. 4;No. 5), 58-62;65-70
AU Novikova, S. I.
AN 1962:68895 HCAPLUS
DN 56:68895
OREF 56:13329h-i

L49 ANSWER 200 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis of oligosaccharides by microbial
enzymes
SO (1960) 44 pp. Avail.: Univ. Microfilms (Ann Arbor, Mich.), Order No.
60-4506
From: Dissertation Abstr. 21, 1333
AU Marsh, Jean M.
AN 1961:28400 HCAPLUS
DN 55:28400
OREF 55:5643d-e

L49 ANSWER 201 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI The synthesis of oligosaccharides by microbial
enzymes.
SO DISSERTATION ABSTS, (1960) Vol. 21, No. 6, pp. 1333.
AU MARSH, JEAN MARIE
AN 1961:27665 BIOSIS

L49 ANSWER 202 OF 204 MEDLINE on STN DUPLICATE 68
TI Carbohydrate metabolism of coli group bacteria. IV.
Oligosaccharide synthesis from sucrose by Esch.
coli var. communior.
SO Japanese journal of medical science & biology, (1954 Feb) Vol. 7, No. 1,
pp. 1-13.
Journal code: 0243706. ISSN: 0021-5112.
AU MOROOKA N
AN 55022750 MEDLINE

L49 ANSWER 203 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 69
TI The oligosaccharides synthesised from maltose by
Escherichia coli.
SO JOUR CHEM SOC [LONDON], (1952) Vol. 1952, No. 1, pp. 209-215.

AU BARKER, S. A.; BOURNE, E. J.
AN 1952:28355 BIOSIS

L49 ANSWER 204 OF 204 MEDLINE on STN DUPLICATE 70
TI The oligosaccharides synthesized by Escherichia
coli from maltose.
SO The Biochemical journal, (1951 Sep) Vol. 49, No. 4, pp. lxi.
Journal code: 2984726R. ISSN: 0264-6021.
AU BARKER S A; BOURNE E J
AN 52016452 MEDLINE

=> s lactose permease or lacy or lac(w)y
FILE 'MEDLINE'

16884 LACTOSE
2832 PERMEASE
620 LACTOSE PERMEASE
(LACTOSE (W) PERMEASE)
790 LACY
11412 LAC
163411 Y
30 LAC (W) Y
L50 891 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'SCISEARCH'

14948 LACTOSE
3378 PERMEASE
755 LACTOSE PERMEASE
(LACTOSE (W) PERMEASE)
317 LACY
8618 LAC
183185 Y,
8 LAC (W) Y
L51 989 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'LIFESCI'

4626 "LACTOSE"
1774 "PERMEASE"
274 LACTOSE PERMEASE
("LACTOSE" (W) "PERMEASE")
153 LACY
4029 LAC
36738 Y
17 LAC (W) Y
L52 385 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'BIOTECHDS'

3729 LACTOSE
247 PERMEASE
39 LACTOSE PERMEASE
(LACTOSE (W) PERMEASE)
37 LACY
1934 LAC
6231 Y
5 LAC (W) Y
L53 74 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'BIOSIS'

24146 LACTOSE
3542 PERMEASE
526 LACTOSE PERMEASE
(LACTOSE (W) PERMEASE)
437 LACY
10002 LAC
131845 Y

L54 62 LAC(W) Y
 896 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'EMBASE'
 14935 "LACTOSE"
 2360 "PERMEASE"
 478 LACTOSE PERMEASE
 ("LACTOSE" (W) "PERMEASE")
 306 LACY
 5327 LAC
 123114 Y
 22 LAC(W) Y
L55 701 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'HCAPLUS'
 56371 LACTOSE
 3618 PERMEASE
 556 LACTOSE PERMEASE
 (LACTOSE (W) PERMEASE)
 501 LACY
 11754 LAC
 344142 Y
 22 LAC(W) Y
L56 938 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'NTIS'
 219 LACTOSE
 12 PERMEASE
 1 LACTOSE PERMEASE
 (LACTOSE (W) PERMEASE)
 15 LACY
 545 LAC
 15331 Y
 0 LAC(W) Y
L57 16 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'ESBIOBASE'
 4138 LACTOSE
 1490 PERMEASE
 251 LACTOSE PERMEASE
 (LACTOSE (W) PERMEASE)
 137 LACY
 2324 LAC
 44478 Y
 2 LAC(W) Y
L58 336 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'BIOTECHNO'
 4333 LACTOSE
 1423 PERMEASE
 257 LACTOSE PERMEASE
 (LACTOSE (W) PERMEASE)
 105 LACY
 2921 LAC
 24405 Y
 15 LAC(W) Y
L59 317 LACTOSE PERMEASE OR LACY OR LAC(W) Y

FILE 'WPIDS'
 14778 LACTOSE
 114 PERMEASE
 5 LACTOSE PERMEASE
 (LACTOSE (W) PERMEASE)
 55 LACY
 1348 LAC

269044 Y
3 LAC(W) Y
L60 62 LACTOSE PERMEASE OR LACY OR LAC(W) Y

TOTAL FOR ALL FILES
L61 5605 LACTOSE PERMEASE OR LACY OR LAC(W) Y

=> s l61(10a) (express? or overexpress? or recombinant?)
FILE 'MEDLINE'
1154432 EXPRESS?
84243 OVEREXPRESS?
292698 RECOMBINANT?
L62 43 L50(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'SCISEARCH'
1476371 EXPRESS?
96165 OVEREXPRESS?
174668 RECOMBINANT?
L63 38 L51(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'LIFESCI'
472856 EXPRESS?
38545 OVEREXPRESS?
79538 RECOMBINANT?
L64 35 L52(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOTECHDHS'
164518 EXPRESS?
7208 OVEREXPRESS?
110831 RECOMBINANT?
L65 21 L53(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOSIS'
1403420 EXPRESS?
93099 OVEREXPRESS?
215355 RECOMBINANT?
L66 63 L54(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'EMBASE'
1062976 EXPRESS?
84489 OVEREXPRESS?
195187 RECOMBINANT?
L67 35 L55(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'HCAPLUS'
1402395 EXPRESS?
88725 OVEREXPRESS?
214008 RECOMBINANT?
L68 70 L56(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'NTIS'
41690 EXPRESS?
1255 OVEREXPRESS?
1920 RECOMBINANT?
L69 0 L57(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'ESBIOBASE'
677875 EXPRESS?
64813 OVEREXPRESS?
98793 RECOMBINANT?
L70 28 L58(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOTECHNO'
452182 EXPRESS?
37390 OVEREXPRESS?

127206 RECOMBINANT?
L71 31 L59(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'WPIDS'
154568 EXPRESS?
 4031 OVEREXPRESS?
 53306 RECOMBINANT?
L72 2 L60(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

TOTAL FOR ALL FILES
L73 366 L61(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

=> s l73 not 2001-2008/py

FILE 'MEDLINE'
 4221099 2001-2008/PY
 (20010000-20089999/PY)
L74 32 L62 NOT 2001-2008/PY

FILE 'SCISEARCH'
 7790095 2001-2008/PY
 (20010000-20089999/PY)
L75 23 L63 NOT 2001-2008/PY

FILE 'LIFESCI'
 895221 2001-2008/PY
L76 24 L64 NOT 2001-2008/PY

FILE 'BIOTECHDS'
 174757 2001-2008/PY
L77 14 L65 NOT 2001-2008/PY

FILE 'BIOSIS'
 3897957 2001-2008/PY
L78 45 L66 NOT 2001-2008/PY

FILE 'EMBASE'
 3713811 2001-2008/PY
L79 24 L67 NOT 2001-2008/PY

FILE 'HCAPLUS'
 8090843 2001-2008/PY
L80 49 L68 NOT 2001-2008/PY

FILE 'NTIS'
 121734 2001-2008/PY
L81 0 L69 NOT 2001-2008/PY

FILE 'ESBIOBASE'
 2196803 2001-2008/PY
L82 15 L70 NOT 2001-2008/PY

FILE 'BIOTECHNO'
 368875 2001-2008/PY
L83 25 L71 NOT 2001-2008/PY

FILE 'WPIDS'
 6465009 2001-2008/PY
L84 0 L72 NOT 2001-2008/PY

TOTAL FOR ALL FILES
L85 251 L73 NOT 2001-2008/PY

=> dup rem 185
PROCESSING COMPLETED FOR L85
L86 72 DUP REM L85 (179 DUPLICATES REMOVED)

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=> s l61(5a)toxic?
FILE 'MEDLINE'
        484015 TOXIC?
L87          0 L50(5A)TOXIC?

FILE 'SCISEARCH'
        306201 TOXIC?
L88          0 L51(5A)TOXIC?

FILE 'LIFESCI'
        121902 TOXIC?
L89          0 L52(5A)TOXIC?

FILE 'BIOTECHDS'
        13355 TOXIC?
L90          0 L53(5A)TOXIC?

FILE 'BIOSIS'
        1482029 TOXIC?
L91          1 L54(5A)TOXIC?

FILE 'EMBASE'
        567603 TOXIC?
L92          0 L55(5A)TOXIC?

FILE 'HCAPLUS'
        556327 TOXIC?
L93          0 L56(5A)TOXIC?

FILE 'NTIS'
        51406 TOXIC?
L94          0 L57(5A)TOXIC?

FILE 'ESBIOBASE'
        212039 TOXIC?
L95          0 L58(5A)TOXIC?

FILE 'BIOTECHNO'
        45087 TOXIC?
L96          0 L59(5A)TOXIC?

FILE 'WPIDS'
        109206 TOXIC?
L97          0 L60(5A)TOXIC?

TOTAL FOR ALL FILES
L98          1 L61(5A) TOXIC?

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 499.43 | 499.64 |

STN INTERNATIONAL LOGOFF AT 15:04:19 ON 02 JAN 2008